THE OLD TIMER'S BULLETIN

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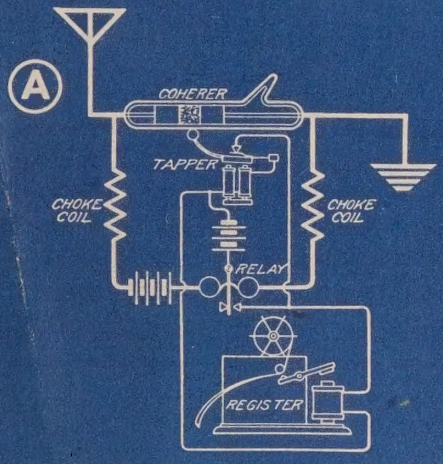

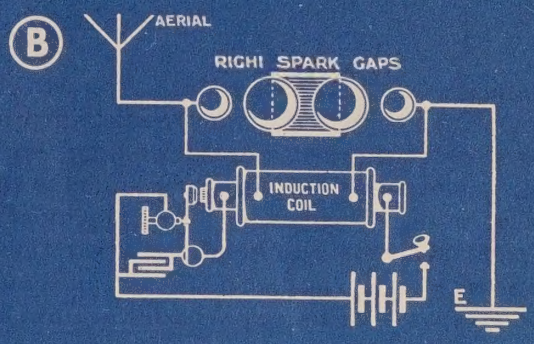

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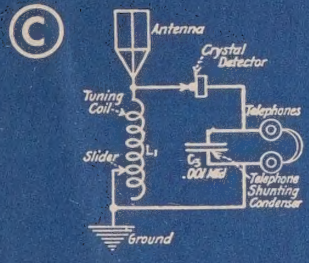

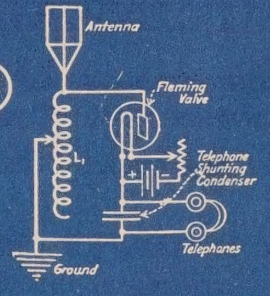

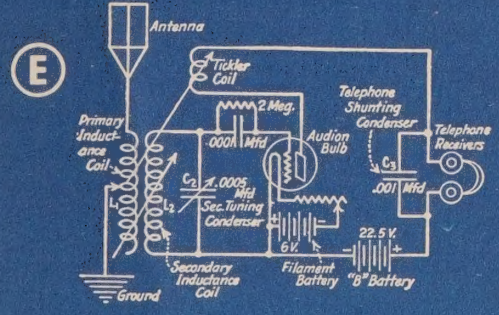

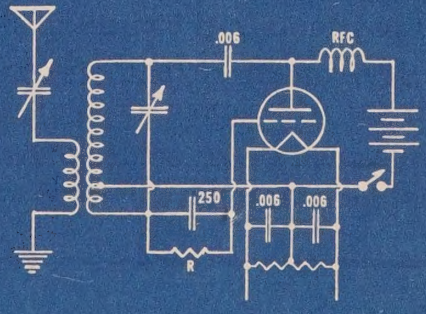

25th Anniversary

Devoted to research and documentation of the history of wireless communications.

Member:
American Association of Museums
Regional Conference of Historical Agencies

ANTIQUE WIRELESS ASSOCIATION, INC.

HOLCOMB, NEW YORK 14469

Founded 1952. Chartered as a non-profit corporation by the State of New York

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News Journal
OLD TIMERS BULLETIN

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Membership DUES and ADDRESS CHANGE, write Treasurer: LINCOLN CUNDALL
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Sunday ---- 12 noon 3903 Kc.
Tuesday --- 8 P.M. 3866 Kc.
Monday -- Wednesday -- Friday 9:30 A.M. 3866 Kc.
Tuesday -- 2 to 3 P.M. 14270 Kc.
CW [Code] 3584 Kc.
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LETTER TO A.W.A. at HOLCOMB ??
Send S.A.S.E. for prompt reply..

"SAGA" RESPONSE

from members has been excellent. Your name and address has been sent to the publisher who will notify you in the near future of mailing date and price.

It has been rumored the price would be between $40 to $50 which is frequently the case for highly specialized technical books of this type.

If response from other organizations, libraries and schools is good as AWA, don't be surprise to see a figure around $25.

In all probability there will be but one edition with little likelihood of of a further printing. Remember what happened to "Tinfoil To Stereo".....

GROTE REBER MADE HONORARY MEMBER

It is with pleasure the Board announces the name of Grote Reber as an AWA Honorary Member. Grote is recognized as the world's greatest living pioneer radio astronomer. He has been a guest speaker at several AWA gatherings including an AWA Conference at the Ford Science Museum.A reprint of the I.R.E. article relating to his early work in radio astronomy (1930's) appeared in the Old Timers Bulletin (7-1-5).Mr. Reber is currently doing research for the C.S.I.R.O. in Hobart, Tasmania (Australia).

FROM HEADQUARTERS

Notes from the President's Desk

This issue of the Bulletin commemorating the founding twenty-five years ago of the Antique Wireless Association brings to mind the wonderful contribution which Bruce Kelley, George Batterson and Linc Cundall made to the annals of radio history by the formation of our Association. Their interest, foresight and devotion have stimulated others and have produced a record of radio history through the publication of the Bulletin, the traveling slide-tape shows, conferences, and the outstanding Museum at East Bloomfield. We all owe them a debt of gratitude for their services during the past twenty-five years.

At the Board of Directors meeting in November favorable reports were made by Lauren Peckham about the Tube Committee, Ken Gardner on the Advisory Committee and Net Activities, Hank Blodgett on the Novice Classes, and by Al Crum on the Museum Photographs. Your treasurers, Linc Cundall and Dex Deeley, reported a sound financial condition for our Association activities and the Museum. The Museum Fund is now at $17,488. This is an increase over one year ago, but we need a fund of at least $30,000 to provide interest income to meet the annual expenses of the Museum. A contribution on your part at this time, either original or additional, will keep the Fund growing and help ensure the future of our outstanding Museum.

After considerable discussion the Board voted to hold next year's Annual Conference at Dearborn, Michigan. The dates will be October 7 & 8. Friday's meetings will be at the Dearborn Inn and Saturday's will be at Greenfield Village. A block of rooms has been reserved at the Dearborn Inn so you may send in your reservation, indicating you are a member of A.W.A.

The publication of an Annual Historical Journal by A.W.A. is being considered. Several people will be needed to perform editorial, publication, circulation, and planning functions. If you are interested in assisting on this potential project, please write me at once.

At the meeting in Canandaigua of the Advisory Committee to the President I appointed Fred Hammond, VE3HC, as an additional member. Fred's assistance will be of real value.

During the past year our Association has received much favorable publicity. This gives us confidence that we can continue to carry out the purposes of our organization during the next twenty-five years. We are all members of an association of which we can be justifiably proud.

Charles Brelsford

A Light That Shone Over Theater's Stars Becomes a Star, Too

The above headline appeared in a recent issue of the Wall Street Journal. It tells of a light bulb above the stage door vestibule in the old Palace Theater (Ft. Worth, Texas) that was installed in 1908 and has been shining ever since -- 68 years or 595,000 hours !! It is rated at 13 candlepower and has never been turned off other than one or two local power failures. They don't make them that way anymore.. (W3AW)

Your BULLETIN arriving LATE ? Try 1st Class Mailing and Special Handling. See p. 2

A.W.A. CELEBRATES 25th ANNIVERSARY

The World's Oldest and Largest Organization Dedicated to Preserving and Documenting the History of Radio.

A Brief History

MEMBERSHIP

This year AWA will be 25 years old. Starting with 10 active members, it has grown to international status with nearly 2000 members making it the oldest and largest radio organization devoted to historical documentation and preservation. Membership roll lists many public museums as well as members in England, France, Netherlands, Belgium, Germany, Norway, Sweden, Greece, Panama, Puerto Rico, Hawaii, Philippines, Japan, Australia and New Zealand.

OLD TIMERS BULLETIN

AWA has never made a concerted effort to increase membership. By 1960, however, there were members in 20 states and Canada necessitating more effective communication than an occasional newsletter Thus, the "Old Timers Bulletin" was born.

MUSEUM

The present AWA Museum followed somewhat the same pattern. From a single collection, it grew to about 25,000 items requiring a larger and more adequate display area. The result is our new Museum, which opened in 1974 and became one of the better known museums devoted solely to electronic communication.

DOCUMENTATION

In this brief history of AWA one must not overlook the Association's documentation of historical persons and events. As an example, members using professional equipment were fortunate to record on 16 mm. movie film and magnetic tape the operation of several high power trans-atlantic commercial stations of a by-gone era. This was done in the 1950's. The AWA Tape Library has recordings of Marconi, Armstrong, De Forest, Sarnoff, Gernsback and other radio "greats". A current project is a slide/tape show on the founding of the A.R.R.L. starring Clarence Tuska.

TWO NEW BOARD MEMBERS

elected at Nov. 7 Annual Meeting

The Board welcomes two very qualified members to assist them in A.W.A. operation:

FLOYD BENNETT who is the owner of a small Tool and Die shop in Kirkville, N.Y. He is a long time active A.W.A. member and has shown great interest in historical radio. Floyd has been host to an AWA "Meet" at which time members had an opportunity to see one of the largest and finest radio collections in the state.

GERALD HALL recently retired as engineer at Television Station WOKR. He has been in the radio field for over 50 years having started as an amateur in the 1920's. He has been associated with several broadcast and television stations including WHAM. His amateur call is K2ZZ.

NEW ADVISORY BOARD MEMBER

President Brelsford recently appointed Fred Hammond, VE3HC of Guelph, Ontario, Canada as a member of the AWA Advisory Board. Fred has been seen several times on A.W.A. Conference Programs and is a well known tube collector and historian. VE3HC is also well known for his amateur radio activities in Canada where he has appeared on Convention and Hamfest programs telling about historical radio.

WESTERN NEW YORK RADIO MANUFACTURERS TO BE FEATURED IN MUSEUM

A new display for the current year in the AWA Museum will be equipment made by local manufacturers. Prominent, of course, will be Stromberg-Carlson made in Rochester. The bulk of the exhibit, however, will be provided by Ken Conrad with receivers made in Buffalo such as Federal, King and Branston. One of the Branston sets is a super-het using 199 tubes -- a beauty ! Ken tells us King Radio Co. originally made sewing machines and later radios (1925). The company was finally absorbed by Colonial.

PHONOGRAPH "BUFFS"

The Jan. '77 issue of HIGH FIDELITY magazine is a must. Series of excellent articles on phonograph development plus dozens of sharp photographs. (Joe Garcia)

It is not often one finds an old cartoon pertaining to radio and when one does it is fun to try and tear it apart. The first thing to catch our eye was the schematic [on the floor] for a two tube set ---- but the finished product has FIVE tubes ! The storage battery is ok -- but the battery [?] immediately behind it looks suspiciously like another [?] -- what -- no "B's" ? --- and the loop antenna sure could use a few more turns spaced a little closer together.....

(We cannot acknowledge the origin of this cartoon since information was not attached -- but I am sure you agree it is a good one. Editor.)

ATWATER KENT

A-K buffs will find the series written by Ralph Williams in "Radio Age" on the history of Atwater-Kent of great value. Ralph identifies all early breadboards and goes into considerable depth (and research) in their development and characteristics. We understand the series may eventually be in book form.

COLLECTORS

will find the best bargain for old time ads in a 2 page newsletter titled "Roaring 20's" typed by Floyd Paul. Why is it the "best" ? -- for the simple reason it cost nothing other than a SASE ! The 8th issue had 15 ads with majority in California. Want a copy ? Send SASE to: Floyd Paul, 1545 Raymond, Glendale, California 91201

EDISON REPLICA LAMP

PRICE INCREASE

Several members (including AWA Museum) were lucky to obtain a replica Edison Lamp noted in Dec. '76 OTB for $7. before the material and shipping costs went up. Even at the new price it is a "buy" since earlier replicas have sold for much more.

Linc Cundall purchased one at a flea market in 1972 for $18 and others have paid as much as $25 for some of the earlier wood base replicas.

With current inflationary trend, don't be surprise if in time new replicas hit $25. Before ordering, we strongly suggest you write G.E. for their latest quote (See OTB 17-3-13).

NATIONAL HISTORICAL RADIO CONFERENCE
Ford Museum, Dearborn, Mich.
October 7-8-9, 1977

THE AUCTION

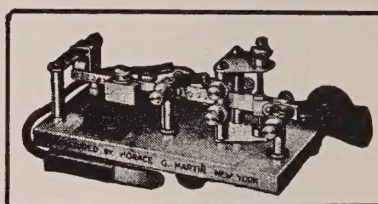
One of the highlights of every AWA Conference is the auction of old gear and the 1976 Auction was no exception. Well over $7200 exchanged hands in little over three hours of hard work by Joe Pavek and crew. Pre-registration of equipment and participants made a fast moving operation with few errors or holdups. Now for the action.

The equipment is brought to the auctioneer by the work crew in no particular order. However, for members who would like to relate like pieces, I will summarize some of the results in groups. We will start with tubes.

The "oldies" seem to have the drawing power-- UV-201 in original un-opened box sold for $10 and a UV-201-A for $8. Then a group of eleven (good but used) 01-As went for $52. This was all quite surprising since one could do as well if not better out in the parking lot flea market. A used WE-104-D with good filament-- $10 and a WE-102-D in original un-open box $7. Not bad. Four Kellogg 401's and one 403 for $30 with condition unknown.

We were taken back somewhat when a Schickering Type S-700 (tit-top) hit $21. This seemed a little high considering a rare Amrad "S" tube sold for only $15. What we consider an average "buy" was a new pair of JAN 860 tubes for $21. So much for tubes -- nothing too exciting.

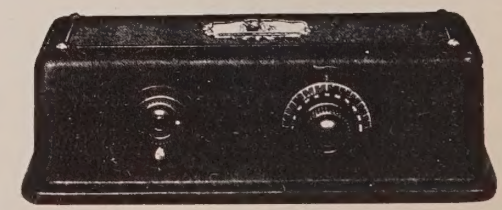
Let us take a look at the telegraph line (no pun intended). An original Martin Vibroplex with cord- $25. (average going price), A Bunnell sideswiper in excellent condition- $30. (they are



Famous Improved Vibroplex

hard to find !), Western-Union mainline sounder for $15. (a fair buy, I have seen them sell for $25.), W-U key and Bunnell sounder- $27.50, a bargain. And lastly, a 15 disc Omnigraph in better than average condition- $80. This may seem high but it is seldom an Omnigraph appears on the market. I find it difficult to determine the age of an Omnigraph since little change was made through the years. It could have been 50 years old or maybe even 70...

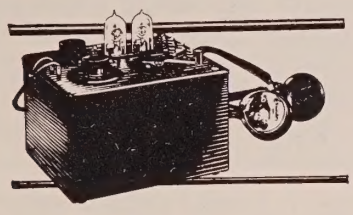
I know you're waiting for sale of receivers. Here goes. An AK Mod. 35 six tube battery set (condition unknown) for $18. Later a similar model (AK-35) went for $35 but this one appeared in excellent condition. (The set is one of the later AK battery sets-- the single dialer using 201-As with 171-A output). A Freed-Eisemann NR-77 with drum speaker for $75 and an Erla battery set with tubes- $50. These prices are somewhere in the ball park.



Model 35 Receiver

How about this one: Victoreen superhet in good condition- $95. ? ...and a Canadian Radiola III-A for $65 followed by a regular III-A in excellent condition with tubes for $105. A Radiola III with tubes plus Balanced Amplifier without tubes and one bad AFT for $125. Apparently someone wanted the companion Balanced Amplifier since a lone Radiola III with (2) good WD-11's sold for $52. Continuing with Radiolas-- a V in good working condition- $145 (!) and one with poor appearance but good AFT's for only $65. It shows it pays to cleanup a set.

RADIOLA III—

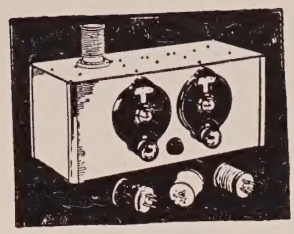


Two Crosleys, both in excellent condition: Mod. 51 for $55 and a 52 for $80. A Freshman Masterpiece in fair condition sold for $32.(All collectors should have a Masterpiece since it is one of the first TRF sets.)

Now for some of the "goodies". How about a Westinghouse RA-DA in excellent condition for $170... This seems rather stiff to us particularly since a Canadian RA-DA also in fair condition sold for only $125. Next on the list was a neat appearing W.E. 7-A Amplifier with (3) good 216-A tubes for $70..... It would appear top brand manufacturers rule the roost for a Kennedy Mod. 281 with a set of Baldwin phones brought a high bid of $250 and I am sure it was not the "Baldies" that did the trick.

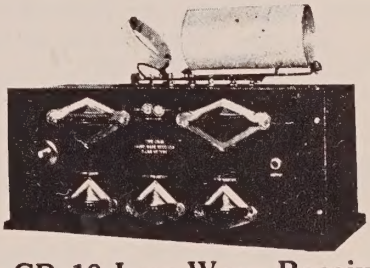
Now for some early AC models: A Philco Mod. 524 in good working order- $60., Majestic table Mod. 461 (circa 1933) in excellent condition- $47., Radiola 18 AC receiver in working order but badly needing a cleaning job for only $20 whereas one which had been cleaned inside drew $40. There was something for everyone -- a little Silvertone AM set hit the limit at $3.

Let us look at some amateur receivers: National 1-10 VHF super-regen with coils & power supply- $50. (a fair price but in time will be worth much more.) SW-3 with coils in good condition- $75. (I have recently seen them sell for $90.) Hallicrafter S-38 in operating condition for $15. (this set in a few years will be worth $30 or $40.)



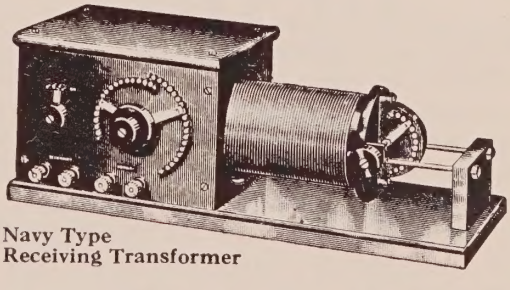
Silver-Marshall "Round-The-World-Four"

Now for a classic: A Silver-Marshall "Around-The-World-Four" with coils-$95. This was a buy for my money. And lastly, hold your hats, a Grebe CR-18 SW receiver with coils and instruction book for $340 ! This set, for some reason, has become a real collector's item within the past year. It was one of the last Grebe battery sets and a low production item making it scarce. In comparison, the SM "Round-The-World-Four" and the Pilot "Wasp" were made only a couple years after the "18" and are electrically and mechanically far superior sets for the money. By the way, coils for the CR-18 are more difficult to find than the set.....



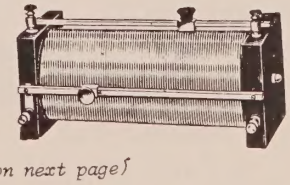
Grebe CR-18 Low Wave Receiver

Pre-WWI receiving equipment: loose-coupler type receiver with original parts assembled on board- $175.,Reproduction of a Navy loose-coupler (orig. hardware)- $75., Sears 2 slide tuner in orig. box- $67.,Signal loosecoupler in excellent condition- $90 and another loosecoupler receiver for $135. It is difficult to describe each of these sets but I think you get the message: anything pre-vacuum tube era is at a premium.



Navy Type Receiving Transformer

Two slide tuner



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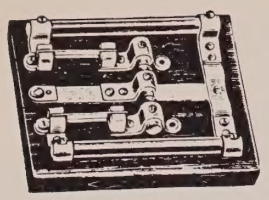


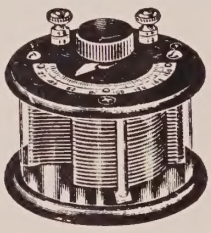
Kick Back Preventer

Prevents high frequency surges from discharging back into power line. A necessity when power transformer is supplied from city mains. Two 1000-ohm resistance rods. Mahogany finished base. Connections of strip copper.

Let me give you some other examples: a working Ruhmkorff spark coil (vibrator type) sold for $75. A kick-back preventor (placed in line of amateur spark transmitters) went for $35 (!) and the familiar SCR-65 airplane spark coil transmitter picked up a high bid of $115....(remember when American Sales were selling them surplus for $5. ??

SPARK TRANSMITTERS
75 Watt, Portable.
Made for U. S. Army Aeroplanes
Government Cost $45.00 each
Our Price $5.00 Each
AMERICAN SALES AGENCY
38 Park Row New York City
Tel. Cortland 5181

Components: An A-K Mod. L horn with open coil (!) sold for $22.50, a good Sterling "B" eliminator went for $10 and a good collapsible loop antenna hit $55. Brandes headphones only made $3.50 (usually $5 is a minimum). The familiar G.R. Wavemeter (excellent condition) drew $40. (There are alot of these around). This one hurts.... a 10 inch early Electrose transmitting antenna insulator got a bid of only $2. Murdock encased variable condenser- $22. (about average price if in good condition).



Murdock Variable Condenser

Meter buffs may be interested in these two items: G.E. Prec. Voltmeter (circa 1915) with double scale sold for $20. and a Weston (circa 1900) double scale wattmeter worked its way up to $65. This is surprising since we didn't think there was that much interest in meters. And lastly, an early RCA Mod. 77-A microphone went for a high bid of $130.

Software: there were some fairly good buys here. John Mill's "Radio Communication" (pub. in 1917) $5., "History of Radio to 1926" by Gleason Archer (an excellent book and hard to find) $30. 26 issues of "Shortwave Craft" magazine (1930-36) $26 and 21 issues of "Radio News" (1932-33) $25 which averages out to around $1 per copy. Not bad. How about this one: a large beautiful felt Westinghouse advertising banner in good condition- $80. (early radio banners and signs are at a premium.)

Had enough ? I hope this summary will give you some idea what equipment is selling for-- but remember, each situation is different: you may have an exceptionally high bid on a certain piece because someone REALLY wants it and has the money. On the other hand, the right bidders may not have been around at time of sale. In this category is the rare 10" Electrose insulator which sold for only $2.

Final remarks: The Association is grateful to all participants, particularly to sellers (with only one exception) who donated 10% of their sale to the Museum Maintenance Fund. This is important. As an example: our museum is a public building and requires high liability insurance plus the usual fire and theft coverage. This item alone costs the Association nearly $700 annually. See you at the 1977 Auction!

73,--- B.K.

AFT SALE!

Members who attended the recent Conference had an opportunity to purchase new high grade audio frequency transformers for replacement in the Radiola III and other early receivers. The demand was so great that Fred Hammond has generously donated another lot to the Association with proceeds going to the Museum Maintenance Fund. In addition, there will be available an exact reproduction of the Radiola III Instruction Booket [with heavy cover] giving full details on the set including circuit and operating instructions. The TRANSFORMER and BOOKLET are now available for only $6 postpaid [$5 you pick up]. Limit 1 per member. Make check out to: A.W.A. MUSEUM FUND and mail to Floyd Bennett who has volunteered to handle sale: FLOYD BENNETT, 7736 KIRKVILLE RD.,KIRKVILLE, NEW YORK 13082

TWO BIG EVENTS

Joint IHRS/AWA MEET at Auburn, Ind. Apr. 16
AWA Eastern MEET at AWA Museum on May 14

COMING EVENTS

ANTIQUE WIRELESS ASSOCIATION

Joint I.H.R.S.-A.W.A. Meet
Auburn-Cord-Duesenberg Museum
Auburn, Indiana, April 16

A.W.A. SPRING MEET (East)
AWA Museum and Locust Lodge
East Bloomfield, N.Y. May 14

NEW YORK STATE ARRL CONVENTION
Monroe Co. Fairgrounds, Rochester, N.Y., May 21-22 (Exhibit)

A.R.R.L. NATIONAL CONVENTION
Toronto, Ontario, Canada
June 3-4 (Program and Exhibit)

NATIONAL HISTORICAL RADIO CONFERENCE - Ford Science Museum, Dearborn, Michigan, Oct.7-8-9

FALL A.W.A. MEET
Date and location to be announced.

ANNUAL BUSINESS MEETING
Sunday, Nov. 6

BACK ISSUES

Historical reference and good reading....

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What more could you ask?

--but a joint MEETING between A.W.A. and the INDIANA HISTORICAL RADIO SOCIETY !!!

Date: Saturday, April 16th
Time: Registration 8:00 A.M.
Banquet: 6:30 P.M.

Where: The fabulous AUBURN-CORD-DUSENBURG Museum at Auburn, Indiana located in the north-east corner of the state near Michigan and Ohio (Rte. 69 and 8).

PROGRAM HIGHLIGHTS

--AUCTION OF OLD RECEIVERS,etc.
--EQUIPMENT CONTEST and AWARDS
--VACUUM TUBE SEMINAR
--A.W.A. HISTORICAL RADIO SHOW
--TOUR THRU THE FAMOUS MUSEUM
--FLEA MARKET of old sets & parts
--plus much more.....

---Unlimited Registration---

Advance reservations necessary for evening banquet. For more information and Registration card, write I.H.R.S. Secretary:

Walt Sanders, 15 Todd Place
Terre Haute, Indiana 47803

DON'T MISS THIS BIG EVENT !

SPRING MEET

SATURDAY, MAY 14

3 P.M. A.W.A. MUSEUM
(East Bloomfield, N.Y.)
Sale of limited amount of surplus material.

4 P.M. LOCUST LODGE (Ionia,N.Y.)
(3 miles NW of Museum on Rte. 64)

Program: "Old Days in Buffalo"
Illustrated show on early radio companies in Buffalo (Branston, King, Colonial and Sylvania.)

TOM ROSICA, W2GIR, Engineering Staff GTE-Sylvania.

5:30 P.M. Delicious SMORGASBORD
(All you can eat for $6.50)

Entertainment: Slide Show of past Conferences and "Meets" with old time music of the '20s.

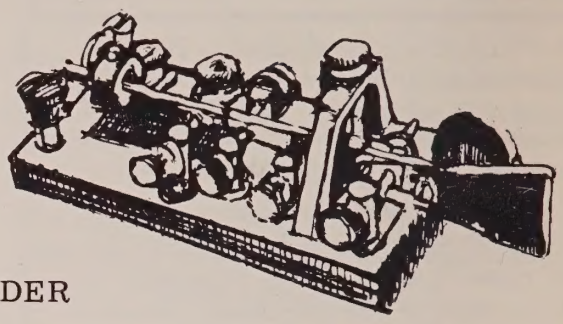
Make reservations for dinner before May 10 with Lincoln Cundall, 69 Boulevard Pkwy., Rochester, N.Y. 14612 or Tele. 716-663-0856

BACK ISSUES

See page 39 for Back Issues not listed at left.

GOOD READING

If you have ever received Morse or Continental code, you must read the following poem. It was sent to AWA by Bill Orr, W6SAI and was copied from a 1935 "R9" magazine. Incidently, a "Plug" is the name for a land-line telegrapher.



THE CHARGE OF THE LIGHTNING SENDER

Up from his chair the other day,
A Plug arose in some dismay,
To answer a call from a distant town,
On a wire difficult to hold down.

The office was warm, the hour was late
As that sender started at rapid rate,
And soon he was going like the wind
With the Plug about fifteen words behind.

And faster and faster the dashes rolled,
And the dots like a torrent uncontrolled,
'Till through that office seemed to pour
Some sixty words a minute or more:

And there in the dim and waning light--
Driving his pen with all his might--
With lips compressed, to his desk inclined,
Sat the Plug, twenty words behind.

Then swift from his pen the hot words flowed
Like chicken tracks in a muddy road;
And as he thought of his terrible need,
He scratched away at his utmost speed:

And soon on his face came a pleasant smile,
For he had caught on to that sender's style;
And as dots and dashes came to his mind,
He soon was not more than ten words behind.

Onward, still onward, at steady pace,
The Plug surely was winning the race.
And when a long "special" neared its end,
He knew full well that the sender could send.

Sometimes ahead, sometimes in the rear,
At last every word to him came clear.
And when they got through, bear this in mind,
the SENDER was fifteen words behind...

The Papers of Joseph Henry; The Albany Years, Vol. 1 & The Princeton Years, Vol. 2. Ed. by Nathan Reingold (Washington; Smithsonian Institution Press, 1972 and 1975, 496 pp. $15.00 & 524 pp. $30.00).

The career of Joseph Henry (1797-1878) is at last being documented. Henry, the pioneer scientist, whose name will always be connected with the story of electricity, was born in Albany, raised in the Saratoga County community of Galway and spent nearly half of his life in upstate New York.

Volume 1, covering The Albany Years (1797-1832) is of course of greatest interest to New Yorkers. The progress of the self-made young scientist from an impoverished boyhood to acceptance in the most distinguished academic circles can readily be followed.

Interesting reports of electrical and scientific experiments are contained in the first volume, and are dealt with in even greater detail in Volume 2. This covers Joseph Henry's move to Princeton, New Jersey, and his first years in the college there. It is of equal importance to social historians of the period, since it contains much commentary correspondence, written as personal exchanges to and from such Henry contemporaries as physician T. Romeyn Beck, botanist John Torrey, educator Benjamin Silliman of Yale and geologist-obstetrician Ebenezer Emmons.

FAMOUS UX-210 TUBE

The first popular transmitting tube used by most early amateurs was the 5 watt UV-202 (1921-1925) which was replaced by the famous UX-210. Bill Orr, W6SAI tells about these well known tubes and similar RCA triodes that followed (801,809,812) in the December, 1976 issue of "CQ" magazine.

Bill verifies the unstable operating characteristics of the 202 and tells of the new 210 with its thoriated tungsten filament which was a vast improvement. He also tells us that 210's made after 1927 with oxide filament were excellent for audio work but poor for Class "C" rf use. W6SAI points out that UV-202's are collector items. Our last Tube Valuation listing (2 yrs. ago) showed a used 202 selling for $12. I am sure the price is now close to $18.

An exceptionally well written and illustrated article. Want a copy ? Send $1. to: "CQ" magazine, 14 Vanderventer Ave., Port Washington, N.Y. 11050 (Be sure and specify December, 1976 issue.)

On Review

THE CREATIVE ORDEAL

The Story of the Raytheon Co.
by Otto J. Scott

(Published in the 1974 New York Atheneum)

Author Scott states that AMRAD must have had the formulae for success because upon its foundations and failures was built the giant RAYTHEON, servant and leader of industry and government.

As you read, you perceive that the formula was: people, brains, science,brains, products, brains, financial support, brains, world affairs and BRAINS...

The founder, Harold Powers, disappeared. His colleagues, Dr. Bush and Dr. Charles Smith of MIT (the "S" tube) and Al Spencer, a lab employee (the Spencer thermostat),were joined by Lawrence K. Marshall, an astute business man who provided science with business support and obtained financial support, whereupon things began to happen.

More people (brains) were added and the chapters titled "the Twenties", the Forties", etc. thru "the Seventies" unfold the fascinating story about people and events that shaped Raytheon.

You will read of the "BH" tube, vacuum tubes, magnetrons, radar, atomic bombs, missiles, transistors, tracking devices, rocketry, computors; there is hardly a science not touched by Raytheon. But, more importantly, you will read of the Raytheon people whose lives have been intertwined in world affairs and affected history.

You will be fascinated by this story because your own field may have been touched somewhere in these chapters...

---Ken Gardner, W2BGN

BROADCAST STATION WHAM

AWA Roster shows well over 200 members who are or have been employed at broadcast /TV stations. It is only natural the greatest number for ONE station should be in the AWA Headquarters area of Rochester, N.Y. Pioneer station WHAM is well ahead of all others with the following 11 members:

Vice-President Ken Gardner- W2BGN,
Dir. Jerry Hall- K2ZZ, Al Bowman-W2ZUX
Fred Ambrose-K2KTI, Art Kelley-W2ROB
Bill DeWitt-W2DD, Eddie Dunn-W2ECH
Geo. Driscoll-WB2DMH, Elmer Grabb-W2DOD
Walt Malone-W2PZH, Yoe Seiler-W2EB

AWA Members who worked at WHEC are:
Ray Jobes-W2IM and Perry Esten- W6PN
--- have we missed anyone ?

NBC CHIMES

AWA had the good fortune of recently acquiring a large set of NBC chimes for the Museum, a gift from Rod Phillips. These are the same 3-tone chimes NBC used for over 40 years as a station break indicator. Little information was known about their origin until Rod wrote a brief history in the December, 1976 issue of IHRS Bulletin.

Rod tells of NBC's need to have a definite means of alerting stations of the newly formed network of their half hour station breaks. At first they tried a 7-tone arrangement [1927-28] which proved too complicated. Finally in 1929 the famous "G-E-C" triad chimes made their appearance and remained in effect until Sept. 12,1971, when NBC discontinued the well known identification on both television and radio networks.

Want the full story ? AWA members interested in the Indiana Historical Radio Society and its publications should write to:

Gary Vierk, 2505 Kickapoo Dr.
Lafayette, Indiana 47905

HISTORY OF ENGINEERING AND SCIENCE IN THE BELL SYSTEM

"The early years -- 1875 - 1925"

PREPARED BY MEMBERS OF THE TECHNICAL STAFF, BELL TELEPHONE LABORATORIES with M.D. Fagen, Editor; 1975; Library of Congress Card No. 75-31499; over 1000 pages. Available from Bell Laboratories, Room 1A-224, Whippany Rd., Whippany, New Jersey 07981. Price: $15.00

"A remarkable treatise devoted to the original Bell invention, early corporate history, station apparatus, wire plant, advent of radio, switching and signaling systems, non-voice communications, materials, components, quality assurance and research. Replete with 28 pages of references and over 500 drawings and photos (!),this text is a collector's goldmine of historically correct information. Opens the way for wire enthusiasts to collect and precisely identify telephone system artifacts." (Len Silvern)

(Ed. note: Ludwell Sibley and others have written glowing reports on this book...it looks like a good one.)

THE NOVICE COLLECTOR AND HIS FIRST AC SET

All-electric receivers made between 1928 and WWII are now the "in thing" with many collectors. This is particularly true with one just starting who finds locating early battery models fairly difficult.

These AC sets are usually housed in attractive wooden cabinets unlike anything made today. A little cleaning and the application of a favorite furniture polish and you have a conversation piece -- but how about the set itself?

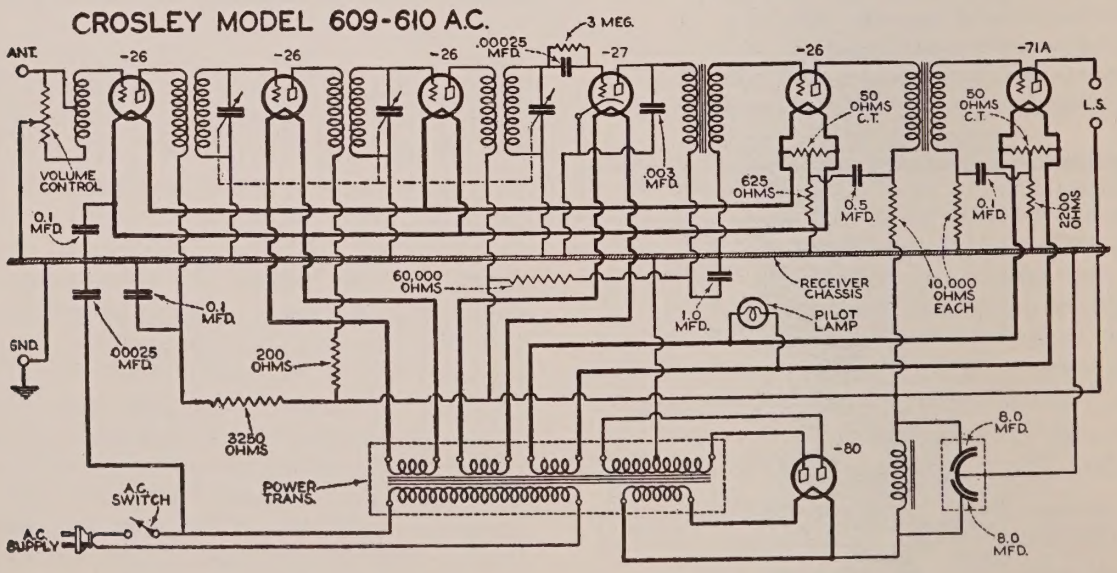
It is difficult to resist the impulse to plug the cord in the wall socket and snap the power switch -- but don't! The set may have been inactive for 45 years and anything could happen. Here is the procedure I follow:

1. Be sure all contacts are clean by working each tube up and down in its socket. It is surprising how dirt and corrosion can accumulate on socket contacts. If the set has such refinements, movement of plug-in coils or a bandswitch may help. Lastly, remove the rectifier tube from its socket, usually a 280 in older sets.

2. Now, plug in the cord and turn on the power switch. Try to determine if the power transformer high voltage winding has a short. The best way to recognize this with minimum test equipment (and no fuse) is to listen for transformer hum or watch the lights for a slight drop in line voltage. If either occurs, turn off the set immediately. To confirm your suspicion, check high voltage each side of center tap with a high range AC voltmeter by placing one probe on the rectifier plate connection (small prong) and the other probe to ground. Check voltage momentarily -- then try same on the other plate connection. If there is a wide descrepancy between the two voltage you're in trouble -- they should be about the same. Little can be done in repairing such a transformer and the odds of finding a replacement are not good, particularly an early one with multi-filament windings for 226's, 227's, 171's and 280 rectifier.

If, however, everything appears normal, check to see if all tubes light. Most collectors have a fairly good access to AC tubes. Keep in mind it is not necessary to replace a defunct tube with exactly the same number. As an example: RCA UY-224, 224, 24A and trade numbers such as SX-224, 524 are all interchangeable.

3. Now for the big moment. Re-insert the rectifier tube and again turn on the power switch. Look closely at the rectifier plates. If they begin to show a reddish color or a very distinct



Typical early set using 3 different filament voltages and hi impedance output (71-A). Note double section electrolytic filter condenser. We might point out the full high voltage is on the speaker-- so don't have one hand on the chassis as you plug it in !

blue appears between the filament and plate, turn off the set immediately. There is a short!

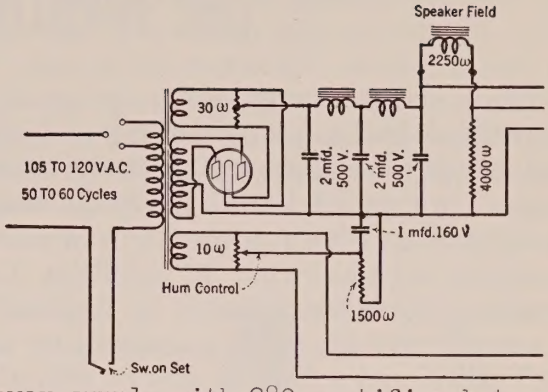
When this occurs, the short is usually a filter capacitor. Old wet electrolytic (particularly Mershons) condensers are notorious for shorting out. You will find it difficult to check individual capacitors for a short without first disconnecting one lead from the circuit.

Once found, the collector who is a perfectionist will remove the guts from the original metal housing and insert a new smaller replacement thus retaining original component appearance. Remember it is wise to use replacements rated at least 50% greater than the actual voltage in the circuit. In a 200 volt circuit, use a capacitor with 300 volt rating, etc.

By now, hopefully the set is working providing the by-pass condensers and resistors pass the test. A word of advice -- don't try to adjust padding condensers. The odds are the set was aligned when it was discarded 40 odd years earlier. You can try "peaking" a TRF set but not a super-het unless you have a signal generator and the know-how.

A tip on loudspeakers: Very early AC sets generally used the same speaker as their contemporary battery models: the familiar high impedance magnetic. However, by 1930 a new type was in general use: the electro-dynamic. This type speaker can be easily recognized by its large field coil and additional connections. In rare incidents, a separate power supply was mounted on the speaker chassis to excite the coil.

The most accepted (and practical)



Power supply with 280 rectifier but without electrolytic filer condenser. Note speaker field coil in high voltage lead.

method was to obtain the necessary excitation by using the field coil as a filter choke in the high voltage power supply. I bring this to your attention for a good reason. If your receiver uses an electro-dynamic speaker and the cone or voice coil is damaged, it is going to be difficult to repair or replace.

The solution is easy. With the speaker field coil in the circuit, measure the voltage across the coil. Remove the coil and replace with a conventional filter choke. It may be necessary to try several chokes starting with 30 Henries and work down to obtain the desired substitute. Be sure the choke can handle the current.

Of course the old speaker is replaced with a modern permanent dynamic speaker. It is all worth the trouble since unlike a battery receiver requiring "A", "B" and "C" power supplies, you now have a set that plays!

-- Carl Zeigler

What's Coming Next!

in future AWA Bulletins

"Old Cortland Street" (Bob Hertzberg)

"History of Barker & Williamson Co." (Jack Williamson)

"History of Halldorson Co." (Geo. Hausske)

New series of Tube Que. and Ans. (Jerry Tyne)

Development of W.E. Monitoring Receivers (Bob Morris)

"The Paragon Radio Telephone" (Ken Gardner)

"History of Day-Fan Radio Company" (Bill Biddle)

"Are All Collectors Good Guys ?"

"How to make a Tesla Coil" Thorn Mayes

THE NIPKOW SCANNING DISC

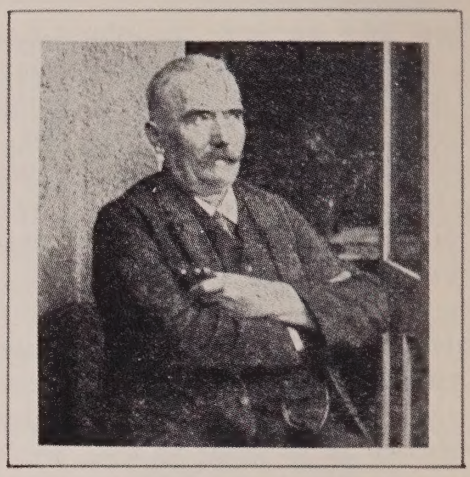
The recent OTB write-up on C. Francis Jenkins prompted me to look further into the history of early television. As we all know, early TV was developed around some form of mechanical scanning. In addition to Jenkins, there were Baird in England, Alexanderson at G. E., engineers at Bell Labs, and a host of others who all experimented with a revolving disc before Zworykin and Farnsworth perfected electronic scanning.

Some used a single rotating disc with a series of holes in a form of a spiral, while others used several discs or a drum to record and receive the image.

But how about the man after whom the rotating disc was named: Paul Nipkow?

A search through several books on early television revealed little about Nipkow. In fact, few even mentioned his name. A forgotten man.

Then I read a report written 44 years ago (Late 1932) by Wilhelm Schrage who found Nipkow living in Berlin, Germany. It was a most interesting reading. See if you don't agree. -B.K.



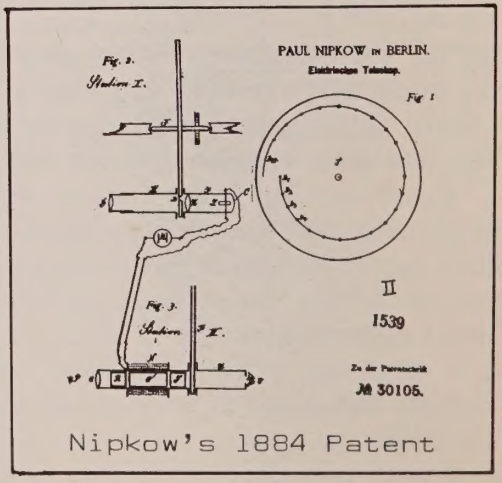
Snapshot of Paul Nipkow taken by Paul Schrage in 1932.

SCHRAGE'S REPORT

Already for years the famous Nipkow, the ingenious inventor of the classical televisor, has passed for one of the tragic figures in the ranks of the inventors who did not live to see their ideas realized. The only thing known of him was the German patent of January 6, 1884, Patent No. 30,105. So much the greater was my amazement, when one day, in looking through the fat Berlin directory, I suddenly saw before me the name of the great televisor inventor, "Paul Nipkow." with the occupation given as "head engineer, retired." Although the matter looked very improbable and it reads in black and white in all bibliographies that Nipkow was a Russian from St. Petersburg (now called Leningrad), I nevertheless set out. The house in old Pankow, in one of the most beautiful suburbs of Berlin, I soon found. There was the door plate with the name "Paul Nipkow," too. But although I am an old journalist and have done many difficult things, I really lacked the courage to ring the bell.

As a matter of fact, what would the people in there say, if I should ask them about the inventor of the televisor? Was there perhaps a totally different Nipkow living here, one who simply by chance had the same name as the great Russian? A Nipkow who had never heard of television and would think I was making a fool of him? I knocked—and stood at the door, awaiting with conflicting emotions what would happen.

The door slowly opened a little. Behind the narrow slit stood an old grey haired woman. At the question: "Please excuse me, but does the inventor of television live here?" she took on an expression which the words "incredulous" and "confused" are too weak to describe. I should have liked best to run away at once. Then came as an-



Nipkow's 1884 Patent

swer an stammered "Yes," a "Yes" so prolonged that I was inclined to assume that I had taken the long trip from Berlin to Pankow in vain. Finally the old lady, after a long and thoughtful pause, said, while gently closing the door, "Yes, I'll just go and ask."

Now I waited outside nervously, expecting at any moment a very "forceful" answer or even perhaps the impact against my head of a hard object capable of producing severe injuries.

But nothing of the kind happened. A smooth shaven man of about 35 opened the door and said,

"Please come in, my father will be right here."

I sat in a room which was adorned according to the good old Berlin custom with a plush sofa and countless knick-knacks. Antique—but very pleasant and comfortable. After a while there came in a man apparently about 60, who said while extending his hand to me, "Yes, I am the inventor."

He told as freshly and gaily as a twenty year old, how, on Christmas eve, in the year 1883, with his stomach not too well filled, he was working at his favorite problem, the televisor, considering everything this way and that, and how he suddenly came upon the long desired solution, at midnight or perhaps a little later.

"I jumped up," said he, "and danced around the room like one possessed, so that my landlady came into my room full of terror, fearing that something had happened to me. Actually something had happened to me, but something delightful, something which made the hitherto so gloomy Christmas a brilliant festival, the most beautiful Christmas festival I can remember. Suddenly my stomach no longer called for food, I was gay, rich, and happy."

Very interesting was his answer to the question of how he had occupied himself with the idea of constructing a televisor. Nipkow laughed and said, repeatedly twirling his fine large mustache, like a sergeant's which was not at all grey.

"Well, that is not as peculiar as you think. At that time the newly introduced telephone was in the center of general interest, like the radio today, and I said to myself that the telephone is imperfect, if one cannot see the person with whom one is talking. And I calculated correctly then, about 50 years ago. Nowhere is there so much trickery and harm as in telephoning, just because the speakers cannot see each other."

KAISERLICHES PATENTAMT

PATENTSCHRIFT

№ 30105

KLASSE 21: ELEKTRISCHE APPARATE.

PAUL NIPKOW IN BERLIN.

Elektrisches Teleskop.

Patentirt im Deutschen Reiche vom 6. Januar 1884 ab.

Der hier zu beschreibende Apparat hat den Zweck, ein am Orte *A* befindliches Object an einem beliebigen anderen Orte *B* sichtbar zu machen; derselbe wird durch die beiliegenden Zeichnungen des Näheren dargestellt.

In Fig. 1 ist *T* eine leichte Scheibe, welche durch ein Uhrwerk schnell, aber gleichmäßig um ihre Achse gedreht werden kann. D_1 D_2 D_3 ... sind durch die Scheibe gebohrte, auf einer Spirale in gleichmäßigen Abständen vertheilte Oeffnungen.

Fig. 2 zeigt die Scheibe *T* im Querschnitt; durchlaufenden polarisirten Lichtstrahles unter dem Einfluß eines die Spirale durchstreichenden elektrischen Stromes zu drehen, z. B. ein Cylinder aus Faraday'schem schweren Glase oder eine mit Schwefelkohlenstoff gefüllte, beiderseits durch ebene Glasplatten geschlossene Röhre. *P* ist eine Lichtquelle, *Q* eine convexe Linse, *R* und *S* sind Nicol'sche Prismen, *T*, ist eine zweite Scheibe, welche der beschriebenen durchaus gleicht, auch ebenso schnell gedreht wird wie *T*. Das Rohr *U* endlich ist dem Apparatsatz *Q R O S* gerade gegenüber auf der ande-

Facsimile of first page of Patent [Radio Review & TV News]

"Please tell me, Herr Nipkow, you surely offered the apparatus to the Postal Department, or did you find some other possibility for using it?"

"Neither the one nor the other, I was so poor that I had to let my patent lapse after a year, I did not even have the money to continue my study, to say nothing of the money for making experiments. You see, originally I wanted to become a teacher, but when my father died, there was nothing else for me to do, after performing my military service, than to work for the still existing Signalbau Company, where I remained for 32 years, at the end as head engineer."

"Are you still occupied with television today, and have you been so in the mean time?"

"It is only in the last few years that I have fetched out again my old hobby-horse, which I understood very well how to ride, as you can see from my old patent. I have also applied for two very good new patents. One concerns a new synchronizing arrangement and the other a so-called 'picture mill'."

"Please, Herr Nipkow, what do you think of the present televisor models?"

"Well, as a simple man I cannot say that so simply. You know, what the

others have produced with the disc televisor—according to my basic patent—will not set the world on fire. After all, it is mostly only my old design, perfected according to the present status of technology. In America, I have read somewhere lately, an American named Jenkins has invented a drum televisor. At any rate that is something new. There is at least a new idea in it, though Heaven only knows whether it will prove practical. If I am not mistaken, however, the Braun tube, the long glass tube with the deflected cathode ray, has the most prospect for practical realization."

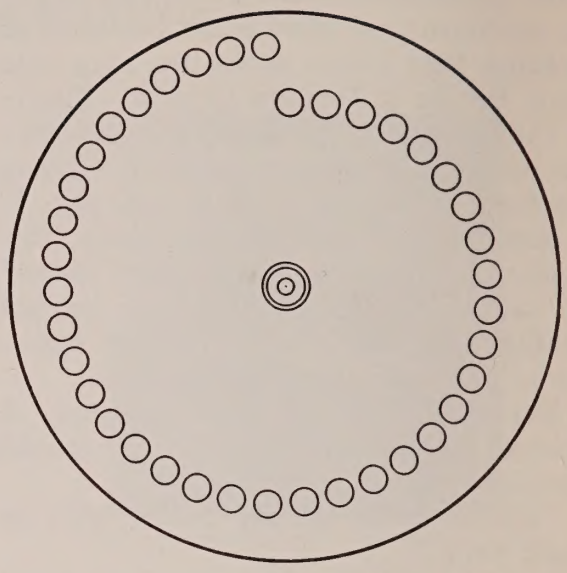
"Herr Nipkow, please tell me when and where you were actually born. In biographies there are some very comical data. You look so young, yet it is 50 years since you applied for your patent on the perforated disc televisor named after you."

"I was born on the 23rd of August, 1860, at Lauenburg in Pommerania, hence about 300 kilometers from Berlin. Oh yes, we Pommeranians last well, we are a hardy stock. Your assumption that I am Russian is therefore wrong. I am a native German and I believe a good German, to boot."

"Herr Nipkow, before I leave, one more question: What did the scientists say about your televisor at that time?"

"I spoke at some meetings of engineers and met with enthusiastic approval. I was also permitted to publish an article about my invention in the 'Electrotechnische Zeitschrift'. That was all."

"Well, Herr Nipkow, perhaps you will have better luck with your other inventions!"



A Nipkow disc used for early television scanning. The major and minor diameters of the spiral determines the height of the picture.

Little is known what happened to Paul Nipkow in Nazi Germany after Schrage's visit. Can any AWA member add to this report?

CLIPPINGS -- NOVEMBER, 1929

R C A Institutes Formed

RCA Institutes, Inc., has been formed as a susidiary of the Radio Corporation of America, with Rudolph L. Duncan as president. Headquarters and main school will be at 326 Broadway, New York, N. Y. The new company has acquired the Philadelphia School of Wireless, and the Eastern Radio Institute of Boston. New schools will be started in Newark and Baltimore, and others are planned for principal cities. The resident schools will provide regular classes for instruction in commercial radio operating, servicing and radio mechanics. Each school will provide correspondence courses as well.

Chas. Freshman Returns

Through acquisition of the Colonial Radio Sales Co., Inc., of New York City, Charles Freshman returns to radio. Chas. Freshman Radio Stores, Inc., has been formed with Chas. Freshman as president, B. Abrams (president, Emerson Radio & Phonograph Co.), and Sidney A. Joffee (formerly merchandise manager of Colonial Radio Sales). Eleven stores are in the chain and headquarters are at 3 East 43rd Street, New York.

Loftin Sells Patents to R. C. A.

Sale of a group of patents by the Loftin-White Laboratory to the Radio Corporation of America has been announced by E. H. Loftin. The sale includes the non-reactive plate circuit method of preventing oscillation and the constant coupling system published in technical papers some months ago. The sale does not include the direct-coupled audio amplifier which the Loftin-White organization has developed.

DeForest *vs.* R. C. A.

Claim for triple damages against the Radio Corporation of America was filed by the DeForest Radio Company on September 11 in the United States District Court at Wilmington, Delaware, as a result of the suit fought and won by the DeForest company with regard to the violation of the Clayton Act by the Radio Corporation, according to a statement issued by J. W. Garside, who claims that his company suffered serious financial losses as a result of the much-discussed Clause Nine.

General Motors Buys Day-Fan Electric Company

Entry of General Motors into the radio manufacturing field was announced late in September by Alfred P. Sloan, Jr., president of the corporation. General Motors has purchased the entire business of the Day-Fan Electrical Company, of Dayton, Ohio, and receivers made by this company will now be known as a product of General Motors. There will be no change in the policy of the Day-Fan Company, according to Sloan's statement.

Previous to this announcement, David Sarnoff, executive vice-president of the Radio Corporation, put to rest the rumors that General Motors would take over the distribution of Radio-Victor products by stating that negotiations had been in progress between General Motors and R. C. A. only with regard to licensing the motor organization to manufacture receivers. Purchase of Day-Fan carries with it an R. C. A. license.

Addition to Crosley Plant

The new eight-story addition to the Crosley plant at Cincinnati is nearing completion and at present three floors are already finished and in operation.

THE YAXLEY MANUFACTURING COMPANY

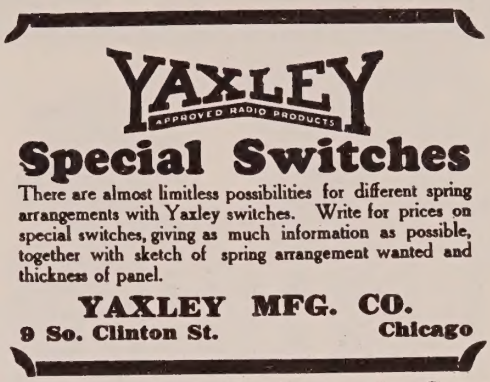
by James Fred

I have been employed by the Mallory Controls Company, a division of the P. R. Mallory & Company, Inc. for nearly 20 years. I am personally acquainted with three men who moved with the Yaxley Mfg. Co. when it was absorbed by the Mallory Company in 1932. These three men, when they retired, had a total of over 125 years of unbroken employment with both Yaxley and Mallory.

I received the following information from George Puerner, formerly the Chief Engineer of Mallory Controls Company, who started work as a draftsman at the Yaxley Company when he was seventeen years old.

The Yaxley Manufacturing Company was founded by Ernest E. Yaxley in Chicago in 1916. (This date is easy for me to remember since it was the year in which I was born.) He was the guiding hand in the business until his death in 1928. The sales of all Yaxley products were handled by the Sparrow Sales Company of Chicago. It was common at that time for a manufacturer to let another company sell its products. Chicago Telephone Supply Company (now CTS Corp.) sold their products through Herbert H. Frost, Incorporated. Ray Sparrow later closed the sales company and became an executive vice-president of the P. R. Mallory & Company, Inc.

After Mr. Yaxley passed away in 1928 the company management decided to sell out. At this time Yaxley consisted of an Electromagnetic Division, and a Components Division. The Electromagnetic Division was sold to



Frank Rowell and today is the Guardian Electrical Manufacturing Company.

The Components Division made telephone plugs, jacks, jack switches, wire wound resistors (both fixed and variable) short wave selector switches, dial light assemblies, and terminal boards. It was sold to the Mallory Company in November 1931 and was moved to Indianapolis in mid-February 1932.

In 1951 the remaining product lines, namely selector switches, jacks, plugs, and both fixed and variable wire wound resistors were moved to the Mallory Controls Company plant in Frankfort, Indiana. They are now in the process of phasing out the manufacture of jacks, plugs, and some types of switches. 1976 marks the 60th anniversary of the founding of the Yaxley Mfg. Co.

NORTHWEST VINTAGE RADIO SOCIETY

Members living in the Northwest section of the country may be interested in a real active organization headquartered in Portland. They publish a fine paper for collectors and old time radio buffs plus sponsoring various activities. Membership is open to everyone. Bob Bilbie is President and Editor. Address is: Box 13544, Portland, Oregon 97213

LATE, LATE ADS received Jan. 17

SALE: Xeroxes of OTBs sold in sets @ $16 & $12 ppd. Write for info. Alan Douglas, Box 225, Pocasset, Mass. 02559

SELL/TRADE: AK-20, early Elec. fans. SASE for list. Chet Wisner, W1VSR, 1014 Main St., Dalton, Mass. 01226

SELL: Weston Mod.372 microfarad meter & Triplett Modulation monitor. Dan Gaidosz, 342 W.River Rd., Orange, Conn. 06477

SELL: Clapp-Eastham fil. xfmr,GR 358 and 174 wavemeters. Make offer. A. McKenzie, WA1RGF, P.O. Box 38,Eaton, N.H. 03832

WANT:Sockets,sprk posts,tube switch controller & and other parts for AK12. John John Sudlow,Rte.4,Syracuse,Ind. 46567

WANT: 1940's projection type TV receiver. Al Mackenzie, 1625 Hillandale Rd., Columbia, S.C. 29206

WANT:Pre-1935 car radios with steering wheel type mount. Gary Micanek, 226 Henry Ave.,Manchester, Mo. 63011

SELL:Early Bat. & AC sets,spkrs,tubes,etc. SASE for list. R. Youhas, 270 Baldwin Road, Parsippany, N.J. 07054

WANT:Spkr for Scott 1940 AM/FM Phil. rcvr. Al Germond,513 Business 63N -#8, Columbia, Mo. 65201

THE MUSEUM

ACADEMY MUSEUM East Bloomfield, N.Y.

W2AN ON THE AIR

A B&W transmitter (a generous gift from W2RIZ) and a National receiver will be in operation at the Museum this year using the club call W2AN. These two units are relatively new compared to the older equipment of the 20's and 30's that has been used in the past. This newer equipment is necessary since the Association has many "ham" visitors (as well as members) who enjoy 40 and 80 meters CW operation -- and who don't have the benefit of a lengthy lesson on how to operate the old gear ! In addition, the station will be available to W2UTH's AWA Novice Class which has been meeting at the Museum.

MUSEUM PHOTOGRAPHS

40 beautiful Kodachrome slides of the AWA Radio Museum with script are available for only $21 postpaid (U.S.).

Two sets of 8 color prints each in special folders of Museum at $5. per set postpaid. ($10 for both sets.)

Enlargements available on enquiry. Order from:

Al Crum
16 Costar St.
Rochester, N.Y. 14608

New Equipment

in A.W.A. MUSEUM

RECEIVERS: W2IIE
TRANSMITTERS: W2RIZ
BOOKS: W2RIZ, Morgan McMahon
MISC.: W2UTH, W3CPM, W2IIE, George Greene and Paul Feldman

NEW RADIO MAGAZINE

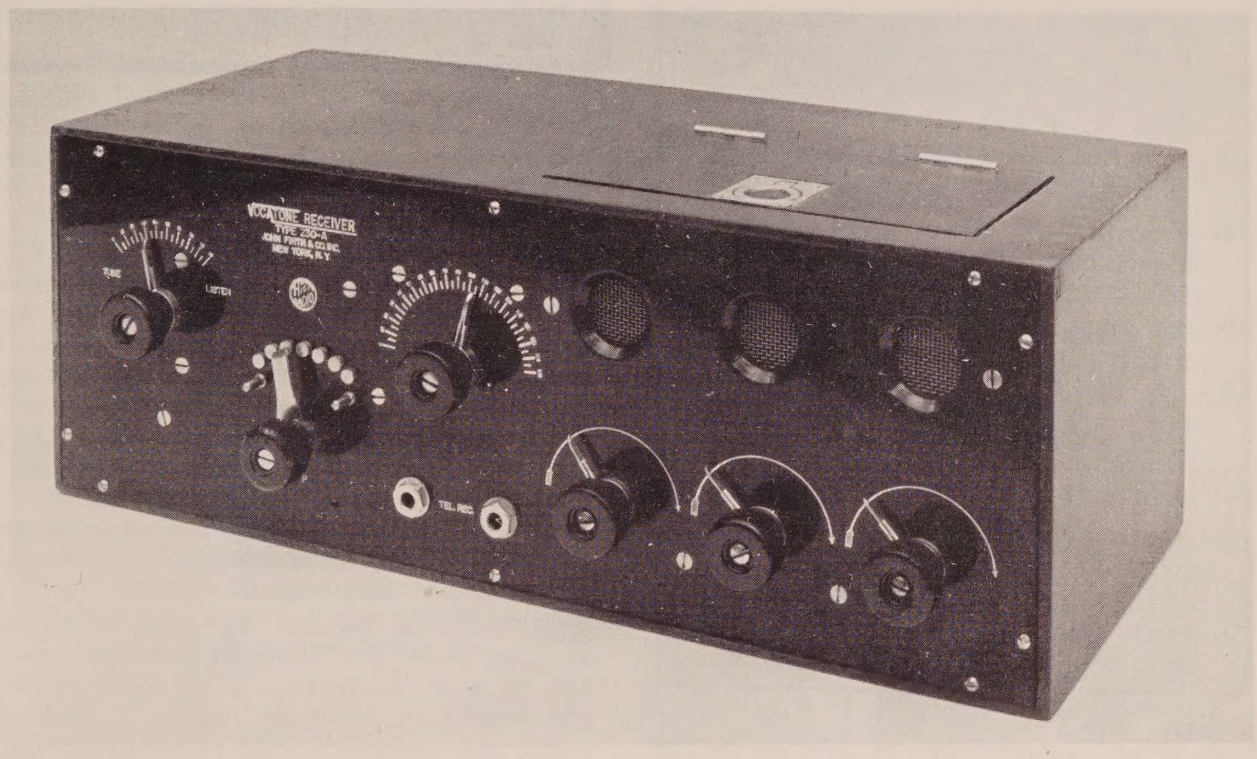
It is not often one has an opportunity to witness the publication of a new magazine. Such a magazine is HAM RADIO HORIZON designed primarily for the new radio amateur and novice. The first issue (March '77) looks great. Interested? Write: Ham Radio Horizons
Greenville, N.H. 03048

A.W.A. MUSEUM RENDEZVOUS FOR SCHOOL CHILDREN

Pictured is one of the several bus loads of school children that visited the Association's Museum last fall. Field trips of this type are usually planned during the week and by appointment. Classes range from 5th graders to college students. You, as AWA members, support these field trips through your contributions. (Photo W2BWK)

RESTORING OLD EQUIPMENT

How did you SOLVE a problem when restoring an old receiver ? Drop us a note telling how you did it.



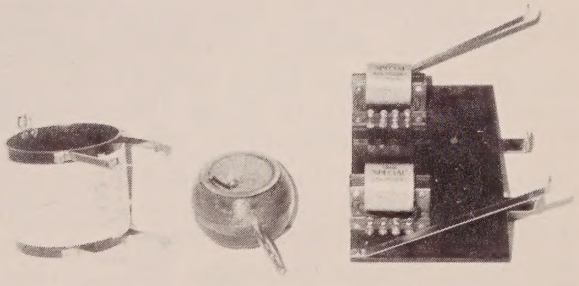
'better than new'

Unusual restoration job by Bob McFarlane, W4BKS of Winston - Salem, North Carolina.

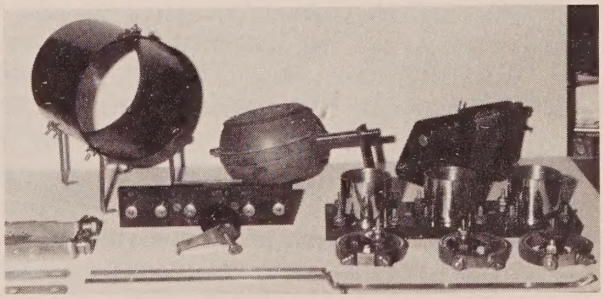
Bob always wanted a "John Firth Model 230A receiver but all he had was a cabinet, an un-wound variometer,a few knobs, binding post strip,schematic, and a picture plus a modern machine shop full of power tools and a great desire !

200 hours later and he has the set pictured above. Assuming his time (excluding material and machine shop investment) is worth only $3. per hour, the set is worth $600. Something like this, however, cannot be evaluated in dollars and cents. The REAL value is accepting a challenge and producing results one can be proud of.

As an example, it took Bob six hours to engrave the panel. Can any other AWA member claim a restoration with such excellent results ?



The coil form was made from .020" insulating paper and epoxy. Bob wound the AFT's and printed the new labels with original wording" "Coto-Coil Co."



Practically all of these parts had to be made including molding the rheostats and sockets and making var. condenser.

OLD TYME HAM ADS

OLD TYME ADS are FREE to members who are interested in collecting and restoring historical equipment as an amateur. They are not to be abused.

RULES FOR ADS:

1. Material must be over 25 years old and related to radio or electricity.
2. Ad MUST be written on separate sheet of paper --- not part of letter. For acknowledgement--send S.A.S.E.
3. Give full address, Zip number and call letters (if any).
4. AWA will not print repetitious ads or ones indicating regular sale for profit.
5. The Association is NOT responsible for any transaction.
6. AWA retains the right to reduce size of ad if OVER 7 lines including address.
7. Only ONE ad per member per issue.
8. All ads must be received 6 weeks prior to mailing date. (See deadline dates on this page.)
9. Mail to: Antique Wireless Assn. Main St, Holcomb, N.Y. 14469

WANTED: Flat coil for AK10 w/o tap switch, Crosley 50 cabinet.Have AK 10B parts for swap.Also early W.E. transistors @ $2. ea. W. Harder,911 Northrup W.,Lansing,MI. 48910

WANTED: Early broadcast microphones for permanent display in lobby. Harry Martin, PO Box 415,New Palestine, Ind. 46163

NEED desperately up to 8 WD-11's.Will pay top price with good filaments. Doug Kahle, W7RA, Box 3368,Sunriver,Oregon 97701

FOR SALE: Philco Cathedral Mod. 89,RCA Cathedral Mod. T4-8,Frred-Eiseman Mod. 40, Philco Rad./Phono Mod. 46-1201,Arborphone Mod. 45. Write: Howard Granoff, 2445 Lyttonsville Rd.,Silver Spring,Md. 20910

SELL:Garrard Mod. RC-80 3-speed record changer in orig. carton,never used.Twin dia. styli GE cart.,Mint. $25. D.M.Sheehan, W1LMS,15 Arcadia Rd.,Andover,Mass. 01810

WANTED: "Archer's History of Radio to 1926" Buy or trade. H.B. Davis, 1201 S. Riverside Dr., Indiatlantic, Florida 32903

LOOKING FOR: Info on early Federal receiver, factory or kit.Have professional reprints of Federal Catalog,manuals,schematics,etc. SASE for details.Want: Early Federals any condition. Dick Schamberger,1975 Hertel Ave., Buffalo, N.Y. 14214

WARNING TO COLLECTORS !

Do NOT send money OR gear to strangers --- particularly if the sale is over $250 and they are seeking rare commercial equipment such as Marconi and De Forest. Check sale first with known collectors. AWA membership can be confirmed by writing to Treasurer. (Note: unfortunately, non- members have access to AWA Bulletin.)

WANT: 4-volume set "Everyman's Guide to Radio" by Yates, pub. by Popular Radio, N.Y.C. 1926. Will buy/trade. Give price and condition. Floyd Lyons, 456 Post St., San Francisco, Calif. 94102

WANT: Baseplate for AK-35,base for AK Type M horn,binding posts & socket brkt. for Tuska 225,AK horns Mod. G,L,sets Mod. 19,21,24 & Cathedrals (AC),Crosley 50. Dave Crocker,Tavern Path,Plymouth,Mass. 02360

WANT: Riders orig. un-abridge Vol.1,2,3, 4&5.Trade 10 volume Hawkins Electrical Guide (1915),Eico Mod. 221 VTVM,Tungar bulbs,A&B battery (mech, rect.),medical shocker,etc. T.Wickstrom,8290 Hidden Bay Ct.,Lake Elmo, Minn. 55042

SWAP: Radiola special one tube regen. in working order for Radiola Concert crystal set in good condition. S.N. Blake, K1CPW, 186 Summer St.,Andover, Mass. 01810

SELL: set of Aero coils in original box, never used, 17-80 meters with mounting block-$10.00 Cliff Daykin, W2AFE, 19 Oxford Place, Geneva, N.Y. 14456

WANT: Radio chassis RC-427 (panel has ten pushbuttons),pwr supply RS-83,12" spkr. RL-70F-5, as used in RCA TRK-120,TRK-12, etc.,Carleton Sarver,256 West 88th St., New York,N.Y. 10024 (212-873-2954 collect)

PRINTER DEADLINE FOR OTB "ADS:

March issue: Jan.15 June issue: Apr.15
Sept. issue: July 15 Dec. issue: Oct.15

Our printer MUST have OTB on these dates Mail service varies, so to play safe, mail your ad at LEAST one week before..

SELL:300 old tubes in orig. cartons.SASE for list,$5. each per tube.Have AK Mod.10 breadboard with tubes,works. One Mod. 10B AK breadboard w/tubes,works.Trade for old Scott Philharmonic or will sell. Rev. G.J. Thomson,11031 Ridgeland,Chicago Ridge, Ill. 60415

WANT: any Kellogg parts, especially variometers,variocouplers and Aeriola Sr. or Jr. box. D.Spence, 9700 South Cass Ave., Argonne, Ill. 60439

FOR SALE: rare magazines titled THE AERIAL pub. by British Marconi Co. for employees between 1920-21. Write for info. Also 1920 thru 1929 QSTs with & w/o covers. Very reasonable. State your wants. ALL money to AWA MUSEUM FUND. Dexter Deeley, 8 Briar Circle, Rochester, N.Y. 14618

FOR SALE: Send SASE for list of tubes, parts, books, Riders and SAMS. Darrell Parrack, 540 Woodland, Moberly, MO. 65270

TRADE: Want Halldorson battery radio and Amrad Tuner-Detector unit. Have Gilfillian 10, Radiodyne WC-17 & SCR55 detector unit to trade. Geo. Hausske, 1922 E. Indiana Street, Wheaton, Ill. 60187

FOR SALE: Reproduced schematics for 1930-1940 radios @ $2. each. 1930 Majestic AC console for sale. Nice cabinet. Plays well. Best offer. James Antaki, 311 Bear Ridge Rd., Pleasantville, N.Y. 10570

WANT: Crosley Mod. 51 or 52, Fenton Wood, WN5VXU, 3122 Ann Arbor, Sugar Land, Texas 77478

WANT: Magnavox loudspeaker of 1920-1923. Please state condition and price. Paul Klipsch, P.O. Box 688, Hope, Ark. 71801

WANTED: Three (3) dials for Atwater-Kent 5 tube Mod. 20 & one dial for Type TA AK. A.W. Wall, 1046 South Seaside Ave., Terminal Island, Calif. 90731

WANT: 2 or 3 tube radio with tubes. Crosley Pup complete. Xtal set in wood cabinet. Pls state condx & price inc shipping. Pat Philippi, 11908 Gainsborough Rd., Potomac, Md. 20854

FOR SALE: AK 10B all orig. in beautiful condx, best offer. Can send color picture. Stromberg-Carlson spkr, mod. # not known, 18" cone on tripod base. Gordon Condon, Box 314, Brooksville, Maine 04617

FOR SALE: Vintage radio parts, Ford spk coil, RME-45 receiver, RME VHF converter, radio books, etc. SASE for list. Richard Cohen, 1801 Bayshore Blvd., Tampa, Florida 33606

SELL: Many WWII xtals & tubes, SASE for list. Want: 1/2" paper tape for code perforator. Al Fitch, W3AW, 9406 Evans St., Philadelphia, Penna. 19115

WANTED: RCA TV-TRK series, scanning disc TV hardware & related literature. Bill Russell, 6463½ Fulton Ave., Van Nuys, Calif. 91401

FOR SALE/SWAP: Kennedy #220 &525, Radiola III, Federal #A & DX-58, Eagle, Grebe CR18 Special, DayFan, Crosley X, RCA VIII, Strad, AK-35 receivers plus 1 KW Spk. trans. Thordarson Type R in good condx. David Varnum, W9QNC, 115 W. 4th Ave., RR.3, Belleville, Ill. 62221

WANTED: Hallicrafter receivers from the 30s. Also catalogs. Will trade QST's & CQs or whatever ? Nicholas Vangoff, 21369 Audette, Dearborn, Michigan 48124

SELL: Several pages of equip./mags/books. SASE for list. Want: Anything wireless. Rick Ammon, Box 104, Mt. Carmel, Ill. 62863

WANTED: for Throla 57 (doughnut coil 5) a dial pointer. Also a chrome Scott. Larry Flegle, 4015 E. 5th Ave., Hialeah, Florida 33013

WANT Wm. B. Duck catalogs #12, 13 & 14 and any other radio catalogs. Also AK breadboard items & brass binding posts. Buy or trade. Glen Angle, KØTAM, Clear Lake, South Dakota 57226

WANTED: speaker to go with a 1925 Fada. Jack Smith, 700 SW 16Pl, Gainesville, Florida 32601

NEED: Two small synchronous motors circa 1932 for scanning disc TV replica, Want (3) #47 pentodes. Have Radiola RC cabinet with no lid for $7.50 p.p. Robert Lozier, 318 E. Houston St., Monroe, N.C. 28110

WANTED: Horn drivers for Magnavox music master, AK, Thorola. Service data for RCA 18T, ARC 155. What is at lower right on Splitdorf RV580A front panel ? Merrill Bancroft, 169 South Row Rd., Townsend, Mass. 01469

WANTED: antique radios & parts. Prefer anything pre-1930. Serious collector with cash to pay for anything good. Please send list & best price. Harold Perkins, 4484 E. Flamingo Rd., Las Vegas, Nev. 89121

SELL/TRADE 6 old battery radios, 6 early AC sets. Want old 1-2-3 tube & crystal sets. $.25 for list. Aaron Solomon, VE1OC, 8 Crichton Park Road, Dartmouth, Nova Scotia, Canada, B3A 2NB 902-466-5188

SELLING some of my collection, 3 lists available @ $1 ea (refundable). Radios, publications & misc. (spkrs, tubes, etc.) Of interest to new & intermediate collectors. SASE @ 26¢ stamps. W2GHF, Box 161 West Hurley, N.Y. 12491

FOR SALE: Last 5 copies of Crosley's "Simplicity of Radio" booklet, 16th Edition of 1924. 80 pages, pocket size. Profits to AWA Museum Fund. Only $3.50 ppd. Gordon Eklund, 6518 Gunpowder Lane, Prospect, Kentucky 40059

TRADE: Mercury Super-10. Looking for Marconiphone I with amplifier or A-K breadboard. Bernard Payne, 116 Palisway S.W., Calgary, Alberta, Canada T2V3V6

FOR SALE: 6 tube 201As HB set $15, AK-40 & spkr $30, Rad. 17 & spkr & tubes $40, Loosecoupler crystal set $20, Philco table Mod. 1938 $15. QST & CQ mags from 1947 @ 25¢ ea. Jack Nelson, W2FW, 915 Sherman St., Rotterdam, N.Y. 12303

TRADE/DEAL Rider 1-V abrdg, XIII-XXII (11 books) for original I thru VI. Buy Radiola RA chassis, Jewell 15B, 15C, Weston H, I, J instrument catalogs. C. Orval Parker, S.R. Box 13, Pocono Summit, Penna. 18346

HELP ! need 4 prong socket and rheostat for Kennedy 110. Jack Allison, 160 South Country Dr., East Patchogue, N.Y. 11772

WANTED to complete binding-nice copies of Electrician & Mechanics Jan. 1910, Modern Electrics Apr. 1911,Radio & TV News Mar. & Apr. 1953, A.R. Marcy, 461-3rd Ave., Sea Park, Eau Gallie, Florida 32937

WANTED: 01A & UX99's, please quote price & condition. For sale: 6-1928 QST's with good covers $2.50 ea. Also 4-100TH's in orig. cartons-make offer. F.A. Paul, 1545 Raymond,Glendale, Calif. 91201

WANTED: Literature on pre-1935 vacuum tubes such as ads,brochures,manuals, magazine articles, etc. Write indicating condition & price. Sterling Jensen,16300 Shamhart Dr.,Granada Hills,Calif. 91344

WANTED: Wireless Age after 1918, QST prior to 1921, bottom cover plate to AK-35. Fred Ritter, 930 First Place, Longwood, Florida 32750

FOR SALE: Large number of early AC sets including Cathedrals.Want catalogs,test sets or meters made by Jewell Electrical Instru. Co.,Chicago. Dexter Deeley, 8 Briar Circle, Rochester, N.Y. 14618 Tele. 716-381-9633

TRADE: Tuska 300, 3 tube Regen. for Zenith 9 tube table model,1936, Model 9s30. Don Knotts,3158 N.E. Azalea, Hillsboro, Oregon 97123

SELL: Variometers:AC Dayton 4",Kurz-Kash 4",Gilfillan 5", & DeForest Honeycomb coil @ $25 ea. Magnavox R-3 horn $50,Radiola 24 @ $75.,old books,2000 old AC tubes,26,27, etc. Arnie Schwartz,WB6PJC,4728 Dunman Avenue,Woodland Hills, Calif. 91364

WANT: Hallicrafter SX-28/28A,SX-42,early incandescent lamps,arc lamps,Radio News mag. 1919-29 & Sept.,Nov. 1943,Allied, Lafayette,Radio Shack,Newark,Cameradio catalogs.Buy or swap. John Wolkonowicz, 11 Hartford Rd.,Worcester,Mass. 01606

SALE: Early crystal sets,radios & radio collectibles.SASE for list. Burt Noyes, 4 Pinewood Dr.,Stratham, N.H. 03885

SELL: 61 issues of radio magazines. Supplements from New York news papers from years 1923 to 1924. Large SASE for further info. Herman Fothe, 10 Jackson St.,Sloatsburg, N.Y. 10974

WANT: Factory made crystal sets & loose-couplers,DeForest loop antenna,Clapp Eastham HR panel mount tube socket & nickel plated Neutrowound tube cover. Bob Lessard, 4807 N.E. 5th St.,Minneapolis,Minn. 55421

WANTED: Information,brochures and literature on Mehnodyne receivers. Andy Johnston,221 W. Lincoln St.,Ithaca,N.Y. 14850

WANT: World's Record sets,Scotts with copper shielding,McMurdo Silver Masterpiece I,II,IV&V,detector for DeForest D-12, parts for Kennedy 110,3 neutrowound covers.Have sets to swap. J.G.Halser,2438 So. Howell Ave., Milwaukee,Wisc. 53207

SELL: Offset press repros of orig. Instru. booklet that came with Grebe CR9. $4. postpaid (Money-back-guarantee) Write: R.V. Klusewitz, 825 N. 2nd St., Reading, Penna. 19601

WANT: QSTs before 1928.Please note state & condition. D.R. Klimaj,W4JVN, 5637 Heming Ave.,Springfield, Va. 22151

WANT: Tuner,legs and on-off switch for Radiola 33. Alan Lendaro, 25 Fanton Rd. Danbury Conn. 06810 (Tele 203-746-9164)

WANTED: Any glass enclosed set,Colonial Globe,Marti,Scott,factory xtal sets. Send SASE for list of items for trade. Richard Cane,8391 N.W. 21st St., Sunrise, Florida 33322

WANT:Will pay for pictures & schematic for Wireless Improvement US Navy 1/2 KW panel radio set CE606B to help restoration.Also need CB233 MG set,½kw 500 Hz for above. August Link,303 Wisconsin Ave. Oceanside, Calif. 92054

WANT:Silvertone All-Wave "Wonder-Radio" Mod.4663 (see 1937-38 Sears cata. p.558 #57 F4663).Also want Hallicrafter S38C in very good condition. Gerald Lackey, 4 Sunrise Ln.,Kirksville,Mo. 63501

WANT: 1925 Greene Portable Concert Selector,3 tube, also other Greene models. Designed by Lloyd Greene (W1ACF),1st Editor of Boston Globe. Write: Lloyd Greene, Jr.,The Millstream,Chelmsford,Ma. 01824

SELL: 1934 Scott All-Wave 15 chassis and speaker,less pwr supply.Will trade for old battery set. J.Wasiewicz, W2DQC, 229 Sarles Ln.,Pleasantville,N.Y. 10570

WANT:RCA PR-535 rheostat with knob,RCA PR-523 gridleak & RCA grid & telephone condensers.Also hi volt. supply for Norelco Protelgram proj. TV. Also IRE Proceedings Oct. '51 Vol. 39. R.T. Millard, 1420 Hollywood Drive,Lancaster,Pa. 17601

WANTED: Crosley book condenser,AK variometer & coupled circuit tuner for breadboard & AK parts. Lee Kemp,RFD,Box 15, Frederick,Md., 21701 (301)662-3482

WANTED: Information and schematic for Gross CW-25 xmtr using 47-46 tubes made in early 30's. Wes Chatellier,W5DPM, 1950 Chevelle,Baton Rouge,La. 70806

WANTED: CG 1162 (VT-14) 5 watt tube. J.K. Bach, Ivy Hill Rd., Walden, N.Y. 12586

WANTED: Commercial rotary gap for demonstration spark set. Also oscillation transformer. Sell/trade Motorola 7" TV. Paul Crum, 6272 N. Cicero Ave., Chicago, Ill. 60646

WANT: AK20 audios, Kellogg brown bakelite variocoupler, variometer and #502 diamond loading coil. David Spence, 9700 S. Cass Avenue, Argonne, Ill. 60439

FOR SALE: Photocopy of entire Adams-Morgan 1913 catalog with early radio equipment,generators,trains,model boats, planes,etc. plus call letters for commercial stat. 130 pages reduced to 70. $25. per set. Wardell Smith,W2BRQ, 65 Glenwood Rd.,Upper Montclair,N.J. 07043

SELL: DeForest tube in can $13.,RCA 66 $15,Apex 36 in custom cabinet $23, RCA UX-210 tubes in boxes $7, several good 01A $5. each,wood variometer. Want cabinet for CR-9,Deforest UV sockets & rheo. & knob.,junk Zenith 4R. Walt Sanders, 15 Todd, Terre Haute,Ind. 47803

FOR SALE: hard to get wire: No.22 DCC, No.24 DCC, 50 strand litz. Sold in 1 lb. spools. #22 (460ft.)$10.00,#24 (715 ft.) $10,Litz (310 ft.)$15. Send check and SASE (also SASE for sample).Larry Wright, 4200 W.Lake Ave., Apt. 101-C, Glenview, Ill., 60025 Ph. 312-729-9551

SELL: Nearly complete set of OTBs (55 issues 1960-1976) in excel cond except one a reprint & 9 punched for 3 hole binder: $135. No single sales. Arthur Peterson,9006 W. Shorewood Dr., #507, Mercer Island, Wash. 98040

SELL:Kennedy 281 $175, Crosley 51 $60, 1 tube homemade for parts incl. (2) GR radio variometers & UV-199 tube $18. Want battery sets ? Send SASE. Harry Williams, Pleasant Hill, Mo. 64080 (WØINI) Ph. 816-987-5715

WANT: W.E. loop antenna in good condition. Also sockets for WE 215A peanut tubes, any make,any model of socket OK. Rodney Schrock,402 Lincoln St.,Somerset, Penna. 15501

HELP: who's got parts for Tuska 225, Federal 59 ? such as dials,knobs, tap switches,etc. Also need Crosley 50,50A and Tryrdyn,AK spkers G,L,R K, AK sets: 19,20 deluxe (24) & 32. Dave Crocker, Tavern Path,Plymouth, Mass. 02360

WANTED:buy/swap Morse tele. keys. Also want to purchase parts of (WW2) SCR-575 VHF D/F stat. made by Bendix,Switch Pnl. PN-6,Fuse Panels PN-5 & PN-15 & clock 7A-87 8 day mech. Corsair No. 8, W7GAQ/6 John Elwood, PO Box 1234, Lancaster, Calif. 93534

WANTED: Instruction manual (or copy) and schemtatic for Hickok Mod. 10 Sig. Gen.,Tube chart for Readrite Model 431 tube tester; any info or liter. on following receivers: 1925 Elkay, 1925 Elkas 5-S. Ed Wyspianski, 27 Sunny Waters Pk., Norwich, Conn. 06360

WANT: Any vols. Nos. I-XI International SW Radio (ISWC mag.) Info on origins of SW stats: DJA,RNE-RKI-RV15,RV59,W9XAA, XF,-3XAL,JVM,1RO,2RO,KFZ,CT1AA,YV3RC, PRF5,HBL. L.B. Zimmerman, 8448 North Harding Ave., Skokie, Ill. 60076

ORIGINAL MARCONI ink drawings & two pencil drawings 1912-13. Also 20 drawings Westinghouse/Chicopee Falls 1934-35 of TAJ Radio Tele. 500W transmitter for US Navy. Sell/trade Marconi.Sell Westinghouse @ $3. ea. Great for framing. L.C. Silvern, Box 49899,Los Angeles,Cal. 90049

WANT/SWAP/PAY complete radios or parts and cabinets for Philco Models 20,70,71, 90 & 91. R. Robinson,232 Cinder Road, Timonium, Maryland 21093

WANT: Lamphood for Radiola 17, "Official" Acme Super schematic, Air-king #3 SW plug-in coil,ball knob for Crosley Pup, repro OK; Swap six 201-As for identical 240s. Cash or trade. Charles Day, 30 Sagamore Dr., S. Dartmouth,Mass. 02748

WANTED: Standard Radio Encyclopedia (1922) by A. Howland Wood. Also Rider Vol. #23. Anthony Kray, Putneyville, Vermont 05346

LATE ADS

WANTED:Nat. Type TS tube shields used in SW-5 & FB7. Also Nat. 5880 or 5887 pwr. Unit. Clarence Filley, W7KE, 1109 South 2nd St., Hamilton, Montana 59840

WANT: Orig. AFT for Crosley XL,Riders 1 thru 5,catswhisker for Radiola V,Radio Trouble Shooters Manual by Aldridge. Jack Piper,402 Bay,Brookhaven,Mass. 39601

WANT:RA unit w/o case,Crosley tuning knob, AFTs for Federal 65,Crosley,DA Unit,Radio Service Labs & breadboard parts. Send info & prices to: Carl Weibezahl, 305 Belvidere Avenue, Washington, N.J. 07882

WANT:Grebe RORD & Radiola V base. Sell: Authentically repro Grebe Instructions for Operating,64 p.,covers most models @ $3.95 ppd. Don Patterson,1220 Meigs Street, Augusta, Georgia 30904

SELL/TRADE Riders #4 thru 9 @ $50 for all. Also 1933 RCA Service Notes,new 6A7 tubes in orig. box $10.Kellogg 402 & Ardon AC 373 tubes.SASE for other items. E.T. Montgomery,1092 Willowbranch Ave.,Jacksonville, Florid a 32205

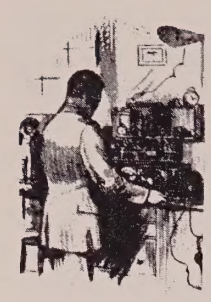
HELP-Radiola 26,need dimensions & manufacture type # batteries which mount in case,also Radiola 18 dial-lite cover & 2 knobs. J. Schlosser, 233 N. Market St., Galion,Ohio 44833 (414-468-9517)

NEED:Murdock 43 pl. var. cond.,will buy or trade my surplus antique parts. Wilson Norwood,Caldwell, N.J. 07006

SELL: 6 tube hb UX201A set,AK-40,QST index 27,28,etc.telegraf relays,loosecoupler xtal set.RME converter,843,26,27,45,71,etc. sockets,etc.Jack Nelson, 915 Sherman St., Schenectady, N.Y. (3)

WANT:Cabinets for Radiola III & Mod. 24, cash or trade.Have Crosley 51 for trade. Ross Smith,1133 Strong Ave.,Elkhart,Ind. 46514

(See page 17 for LATE, LATE ADS)



MASTER INDEX

THE OLD TIMER'S BULLETIN

OFFICIAL JOURNAL, ANTIQUE WIRELESS ASSOCIATION, INC.
Published for the Old Time Wireless Operator, Historian and Collector

OLD TIMERS BULLETIN
MASTER INDEX

To satisfy numerous requests, I have attempted to list significant items and events which have appeared in the OTB. There is some cross-indexing and on occasions the same listing may appear twice under different dates. I am also sure some items may have been overlooked.

The FIRST number indicates the VOLUME, the SECOND-- the ISSUE and the LAST number the PAGE.

Hence, 17-4-10 indicates the item is in this Bulletin and on page 10.

I hope you will find this MASTER INDEX of value.

Bruce Kelley

Bruce Kelley,
Editor

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BACK ISSUES

Do you need back issues of OTB for historical reference ? See notice elsewhere in this Bulletin listing original copies in stock.

The supply of many early Bulletins is exhausted. These are issues when membership was less than 400 and only a marginal surplus was printed.

Our printer has retained the off-set negatives for about half of these non-listed copies. This means he can provide these back OTB's if there is sufficient interest. Where the negatives are not available, a duplicating process can be used with slight loss in print quality.

Please send list of "wanted" OTB's to Dex Deeley who will determine cost for new printing. If the demand is great enough, we may be able to keep cost to $1 per issue. Results of survey will be given in the June Bulletin.

Send list to: Dex Deeley
8 Briar Circle
Rochester, N.Y. 14618

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Participants at California A.W.A. Regional Meet. l. to r.: John Drake, Thorn Mayes, Bob and Nancy Merriam, Charles Brelsford and Curator of Foothill College Electronic Museum where meet was held.

THE GREAT MARCONI SEWING MACHINE MYSTERY

by Leonard Silvern, K6RXU

The Marconi Wireless Telegraph Company of America is normally associated with radio equipment and communications in the 1899-1919 period. Why, then, did American Marconi build sewing machines just before General Electric conveyed its Marconi stock to the newly formed Radio Corporation of America?

The record disclosed that Marconi Wireless was formed 22 November 1899 with British financial backing. GE created RCA as a separate corporation in October 1919 through the efforts of the U. S. Navy and Owen D. Young. Then, the following month, GE conveyed its Marconi stock to RCA and Marconi became totally absorbed into that firm.

Now --- for the sewing machine mystery. The writer possesses four original linen vellum inked manufacturing drawings depicting the SEWING MACHINE DRIVE, on typical Marconi Wireless Corporation of America vellum, titled and dates as follows:

Assembly	30568 Sheet 1	19 Sept 1919
Belt Guard	30568 Sheet 2	18 Sept 1919
Pulley Arm	30568 Sheet 3	18 Sept 1919
Details	30568 Sheet 4	18 Sept 1919

These unusual drawings raise tantalizing questions. Why did Marconi enter the sewing machine business at a time when the radio business was booming? Was this a desperate, last ditch effort to salvage the firm financially --- an event unknown to the business world? The sewing machine was an old invention by 1919. It was first conceived by Weisenthal in 1755 and the lock-stitch incorporated by Howe in 1846. Did Marconi make a new and special contribution to the sewing machine field with these designs of 1919? Is it possible that this contribution may have escaped the view of historians?

Less than a month after these drawings were produced, GE formed RCA. Was there a connection between these events? In Ports O' Call (P. 35, Society of Wireless Pioneers), the U.S. Navy's Admiral Bullard is credited with persuading GE to form RCA. But yet unexplained is the Marconi move to build sewing machines during the same month that GE was in the process of creating RCA to take over. Can anyone shed light on this, the Great Marconi Sewing Machine Mystery?

Batcher Award

Morgan McMahon

Congratulations to AWA member Morgan Mc Mahon as recipient of the Radio Club of America's coveted Batcher Award. This award is given each year to individuals who have contributed to historical radio. Ralph Batcher was an ardent AWA supporter and historian. He became a Silent Key in 1969. In addition to McMahon, Harold Beverage of Beverage antenna fame also received the Award. Below is partial reprint from RCA Proceeding telling of Morgan's work which most of us are familiar with:

In 1972, the McMahons published *Vintage Radio*, based on the late Harold Greenwood's 1961 *Pictorial Album of Wireless and Radio.* It covered transmitters and receivers from 1887 to 1929, with photographs not only of radios, but speakers and other components, and even a page of test instruments of the 1920's. Nostalgic illustrations and advertisements appeared among the photos of broadcast receivers and 200-kW transmitters, with the occasional short article recalling the old times. The book was such a success that a second edition had to be published.

The *Radio Collector's Guide* came out in 1973, followed in 1974 by a reprint of Sidney Gernsback's 1927 *Radio Encyclopedia.* A book of schematics, Supreme Publications' *Most-Often-Needed 1926-1938 Radio Diagrams*, was next, also in 1974.

In 1975 a completely new book, *A Flick of The Switch*, filled with photos of receivers of the 1930's to the 1950's, with a few articles on the period and short chapters on the radio amateur, collecting and kindred subjects, appeared.

PHILIPPINE HISTORICAL RADIO SOCIETY

A new historical group has been formed whose objective is the history of radio in the Philippines -- broadcast, commercial and amateur. AWA members who possess material or have an interest in the Philippines are advised to write to:

PHILLIPPINE HISTORICAL RADIO SOCIETY
P.O. Box 972, Lafayette, Ind. 47902

WITH THE COLLECTORS

Collectors -- this is your column telling of your activities. The deadline for the column is about the time you receive the OTB -- so please write now: LAUREN PECKHAM, ORMISTON RD., BREESPORT, N.Y. 14816

FLOYD LYONS (San Francisco,Calif.) also found the long trip to the Canandaigua Meet well worthwhile. His rare tube collection is now including a Moorhead ER tubular,Jenkins TV lamp,DeForest Type HR rectifier,and an early GE Type CA wire-photo tube. Other items include a Radiola Sr. and early light bulbs.

DAVE McKENZIE (Indianola,Iowa) is pleased with a Scott "Worlds Record Super" that he is restoring.

GAYLORD EWING (Rochester,N.Y.) is still expanding his collection of recording equipment. Recent additions include a prototype wire recorder made by the Brush Development Co. and a Presto disk recorder.

AL JOCHEM (Quincy,Ill.) attended a Hamfest in August, 1976 and bought what he thought was a box of ordinary octal tubes. One carton marked 12SJ7 contained a tubular AudioTron with good filaments ! Yes, he checked the other boxes carefully... Al also located a scarce Radiola VII.

DAVID PECKHAM (Breesport,N.Y.) opened a Christmas present and found a rare VT-32 tube which was made by the Moorhead Co. for British government during WWI.

JAMES COLLINGS (Abilene,Texas) attended the Southwest Vintage Radio Society Convention and found a Radiola 20 and Grebe CR-8 with RORK amp. Back home he located a DeForest Interpanel,Grebe CR-12 and Murad MA-13....

LEO GIBBS (Kettering,Ohio) had good luck at the Oct. 1976 AWA Meet where he acquired a DeForest Singer Oscillion tube.

ROSS SMITH (Elkhart,Ind.) found a rare AK 19,Crosley Bandbox, and a Sodion S-13 tube.

JOHN GOUGH (Canal Zone) recently acquired several artifacts from the estate of the well known Panama radio amateur Col. Prescott, HP1A. In addition to old gear, John has his early log with 1924 entries showing traffic handled for the Prince of Wales.

ORVAL PARKER (Pocono Summit,Pa.) enjoys early meters and test equipment and has some dating back to 1900. Orval's son found a Crosley Pup in a trash can. It is now on the shelves at Pocono Summit!

CHET WISNER (Dalton,Mass.) sent a long list of goodies he recently acquired including AK20, (large),Stewart-Warner 300, Crosley Trirdyn, A.C. Dayton X.L.5, and a 1915 quench spark gap.

BARNEY WOOTERS (Denver, Colo.) asked the Editor of this column to identify an early DeForest tube for him. I am sure Barney was pleased to learn he has a rare CF-185 used by the U.S. Navy WWI.

AL DOUGLAS (Pocasset, Mass.) purchased a Radiola III-A with three good WD-11's, Clapp-Eastham 3 dialer and a Willemin crystal set for a total cost of $9.00 ! I doubt if he'll reveal the source....

LARRY FLEGLE (Hialeah,Fla.) added a Newcombe-Hawsley speaker,Thorola Mod. 57, Crosley 51,Mohawk 1-dialer and a nice DeForest tube canister to his collection. He topped everything off with a 1954 Seeburg jukebox !

DON PATTERSON (Augusta,Ga.) did well in the Canandaigua Flea Market back in October. He found two David Grimes receivers and a spark set. His good fortune continued when he found an AK Mod. 10 on the way home...

OTHER HISTORICAL "MEETS" - - -

Society of Wireless Pioneers and Morse Telegraph Club Joint Meeting
Saturday, Apr. 23 Write K2IC for info.

Antique Radio Club of America
Saturday, June 11 at Breesport, N.Y.
Write: Bill Denk, 81 Steeplechase Rd.
Devon, Penna. 19333

50TH ANNIVERSARY QSO LISTING
W1BVL (1BVL) -- W6CG (9CSB)
Dec. 13, 1926 - 1976
(Both A.W.A. members !)

SILENT KEYS

Dr. George W. Bailey

89 years, early radio amateur (W2KH), former President of A.R.R.L. and exec-utuve secretary of I.R.E. 1946 to 1962. (K3CL)

"BOB" ROBERTS, W1HJ [Dover,Mass.] Ship operator and Coast Guard Officer

"ANDY" SHAFER W8TE, [78 years] New Carisle, Ohio. President of the Old, Old Timers Club, former Marconi, Independent Wireless & RCA operator. (K8UZ)

Assembly & Finishing

RESTORING FINISH ON A.C. SETS

Many of the Zenith receivers of the late '30s and 40s (and many other brands) had dial faces that were given a gold finish by spraying a transparent film on the silver or white metal base. A perfect match to this film can be found in glass stains available in craft shops. One note of caution: the water base stains don't work...get the solvent based stains. Best results are obtained by applying the stain with an air brush or other small sprayer. The stains I have were made for Cunningham Art Products, Inc., 2156 Flintstone Dr., Tucker, Ga. 30084. (Bob Lozier)

ANOTHER METAL POLISH

Floyd Lyon highly recommends a German product called "SIMICHROME" for copper, nickel, chrome, etc. It comes in ½ lb. cans and can be found in most motorcycle outlets.

THE GOOD OLD DAYS

Basil Van Der Syde (Dorset, England) relives the past by listening on one of his early receivers to old time broadcasts sponsored by BBC. He points out it is most important to use earphones to get the real nostalgic feeling.....

CALIFORNIA HISTORICAL RADIO SOCIETY

headquartered in San Jose is another excellent organization founded in 1975. They publish a fine journal (articles & Want Ads) for collectors and sponsor several meets during the year. They are presently seeking a location for a permanent museum. We note several C.H.R.S. Officers are AWA Members. Others who care to join (Annual dues $7.50 and $5. for Senior Citizens) should write:
Jim Cirner, 13366 Pastel Lane, Mountain View, Calif. 94040

Change In Address?

Mail information to the Treasurer who handles current mailing list. (NOT the Secretary)

L.A. CUNDALL, W2QY
69 BOULEVARD PKWY
ROCHESTER, N.Y. 14612

HOUCK AWARD

ITS HISTORY

There are two Awards sponsored by Harry W. Houck given annually by the Antique Wireless Association. The first is the Award for Historical Documentation. This award is for historical material relating to radio communication, published or otherwise made available to others especially that which but for the efforts of the author would have been lost.

The second is for collection and preservation of published material or artifacts relating to or otherwise, illuminating the history of early radio. Consideration in making the Award is given to display or use made of the material to disseminate information on the history and development of communication.

ABOUT THE SPONSOR

Mr. Harry W.Houck served with Major E.H. Armstrong (then Captain) in Signal Corps Laboratory in Paris 1917-1919. It was there the super-heterodyne receiver was first conceived and developed. In 1922-23 Houck developed an improved model known as the Second-Harmonic superheterodyne which was made and sold by RCA. From 1923 to 1931, Harry Houck was Chief Engineer of the Dubilier Corp. He served as consultant and later Vice-President and Divisional Manager of Measurements, Inc. He is Fellow and Life Member of I.E.E.E. as well as past President and currently Director of the Radio Club of America. We are honored to have Mr. Houck as an Honorary Member of the Antique Wireless Association.

RECIPIENTS OF HOUCK AWARDS

	Historical Documentation	Collection and Preservation
1971	Thorn Mayes	- - - - - -
1972	Bruce Kelley	Edward Raser
1973	Gerald Tyne	Bob & Nancy Merriam
1974	Louise Moreau	Warren Green
1975	Wm. Breniman	Stuart Davis
1976	Howard Schrader	Wayne Nelson

HOUCK AWARDS FOR 1977

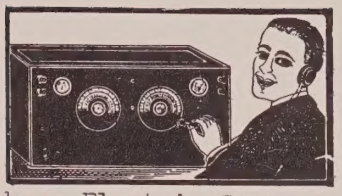
Members are reminded that it is again time to consider possible candidates for the 1977 Houck Awards. Nominations for these Awards are urgently requested from A.W.A. members by the Awards Committee. There are two awards: one for preparation and publication of valuable historical material relating to radio communication and the second for collection, preservation and display of publications and artifacts showing history and development of radio. Nominations including reasons and factual supporting material should be sent not later than May 15, 1977 to Awards Chairman: Robert Morris, RD #1, 60 Sunset Lake Road, Sparta, New Jersey 07871

Do you know...?

---the F.C.C. issued past A.W.A. President George Batterson the amateur call letters W2GB and most recently Treasurer Lincoln Cundall the call W2LC.

The issuing of initials for call letters is not new. Glancing through a Broadcast Station Call List of the 1920's found the following:

KPSN-Pasadena Star News
KSAC-Kansas State Agriculture College
KSL- Salt Lake
KTAB-Tenth Avenue Baptist Church
KUOM-Univ. of Montana
KUSD-Univ. of South Dakota
KUT -Univ. of Texas
KWFH-W.F.Henderson Co.
KJBS-J.Brunton & Son
KLDS-Latter Day Saints church
KOAC-Oregon Agricultral College
KOCH- Omaha Central High school
KOCW-Oklahoma College for Women
WABC-Ashville Battery Co.
WAHG-A.H. Grebe company
WAIT-A.H. Waite Co.
WAIU-American Insurance Union
WAPI-Alabama Poly Institute
WARC-American Radio Res. Corp.
WBES-Bliss Electrical School
WBRC-Bell Radio Corp.
WBRE-Baltimore Radio Exchange
WCUW-Clark Univ. at Worcester
WCWS-C.W. Selen
WDCH-Dartmouth College at Hanover
WDRC-Doolittle Radio Corp.



WHEC-Hickson Electric Company
WMSG-Madison Square Garden
WEBH-Edgewater Beach Hotel
WEEI-Edison Electric Illum. Co.
WEMC-Emm. Missionary College
WFDF-F.D. Fallain
WFKB-F.K. Bridgman
WGBS-Gimbel Bros. Store
WGHB-G.H. Boules
WGHP-G.H. Phelps Inc.
WGST-Ga. School of Technology
WKBE-K.&.B. Electric Co.
WKRC-Kodel Radio Corp.
WLTS-Lane Technical School
WMCA-Hotel McAlpin
WNBH-New Bedford Hotel
WNYC-New York City Munical station
WOWL-Owl Battery company
WPSC-Penn State College
WRC-Radio Corp. of America
WREO-Reo motor company
WRHM-Rosedale Hospital of Minneapolis
WSBF-Stix Baer & Fuller
WSBT-South Bend Tribune
WSMH-Shathick Music House
WSOE-School of Engineering
WSUI-State Univ. of Iowa
WSWS-S.W. Strauss Co.
WTIC-Travelers Insurance Company

--and with regret we cannot add WLS as the "World's Largest Store".....

plus many others.....

RECENT RADIO and ENTERTAINER OBITUARIES

Richard Leibert, Chief Organist At Music Hall 1932-71, Dies at 73

Richard Leibert, chief organist of the Radio City Music Hall from its opening in 1932 until his retirement five years ago, died Friday at Lee Memorial Hospital in Fort Myers, Fla.

In motion pictures, Miss Boswell appeared in "Kiss the Boys Goodbye," "Transatlantic Merry-Go-Round," "Moulin Rouge," and "Artists and Models."

Singer Connee Boswell dies

Connee Boswell, 68, and crippled by polio since childhood, was remembered for renditions of "Stormy Weather," "Whispers in the Dark," "Boulevard of Broken Dreams," and "When the Saints Go Marching In."

Benjamin Gross Is Dead; Engineer and Inventor, 83, Headed Capehart Concern

In 1922 he changed over into the new radio industry and from 1924 to 1956 served as eastern distributor for Stromberg-Carlson Radio and TV. In 1945 he formed his own concern, Gross Distributors, and in 1956 acquired Capehart Corporation.

Frank J. Bingley

PHILCO TV PIONEER

Developed B&W and color TV for Philco. Born in England where he pioneered with John Baird with Mechanical scanning TV. Joined Philco in 1931 and worked with Philo Farnsworth, David Grimes, Albert Murray and others. Was Chief Engineer of Philco's TV station W3XE, one of the first experimental TV stations.

SILENT KEYS

FRANCIS KEIPER, ex-AFA, 8ALM 71 yrs., Honeoye, N.Y., Retired Patent Attorney [formerly from Rochester.]

WALTER MULLANEY, W2EOR, ex-2CEF, Woodcliff Lake, N.J. Engineer WGBS 1930-31, WINS 1931-37, NBC 1937-1968

WILLIAM DERRICK, W2LWO, ex-2AHO, Pleasantville, N.J. Pioneer BC engineer RCA 1920-38,ITT 1944-63.

Museum of the Antique Wireless Association, East Bloomfield, New York. It occupies about a third of the beautiful 139-year-old East Bloomfield Academy building, now restored and opened to the public in May, 1975. Thousands of pieces of old wireless equipment are on exhibit and many priceless books and records are on file. Scores of visitors, many from distant states and foreign countries, come to marvel at this collection every month during spring, summer and fall. AWA members take turns manning the Museum on weekly schedules. Special groups are accommodated by arrangement with the Secretary. When you're in the East, don't miss the chance to stop and enjoy the Museum, located in the heart of the fabulous Finger Lakes country.

HISTORICAL RADIO CIRCUITS

A - The coherer receiver perfected by Guglielmo Marconi was the first practical device to receive Hertzian waves.

B - The first wireless transmitter was an induction coil and a straight spark gap.

C - A single slide tuning coil with a galena detector was the most popular receiver before WWI.

D - The first vacuum tube receiver used a diode perfected by Ambrose Fleming.

E - Major Armstrong's feedback cicuit and Dr. De Forest's triode tube resulted in one of the most popular receivers of all time.

F - The Hartley oscillator proved to be one of the most flexible circuits for a vacuum tube transmitter.

Center (A.W.A. Logo) - The resonating loop of wire with spark gap was the first device to detect Hertzian waves.

MUSEUM HOURS

SUNDAY———————2 to 5 P.M. WEDNESDAY————7 to 9 P.M.

May through October

Open to groups by appointment.
Telephone (716) 657-7489

Museum Telephone:
(716) 657-6260